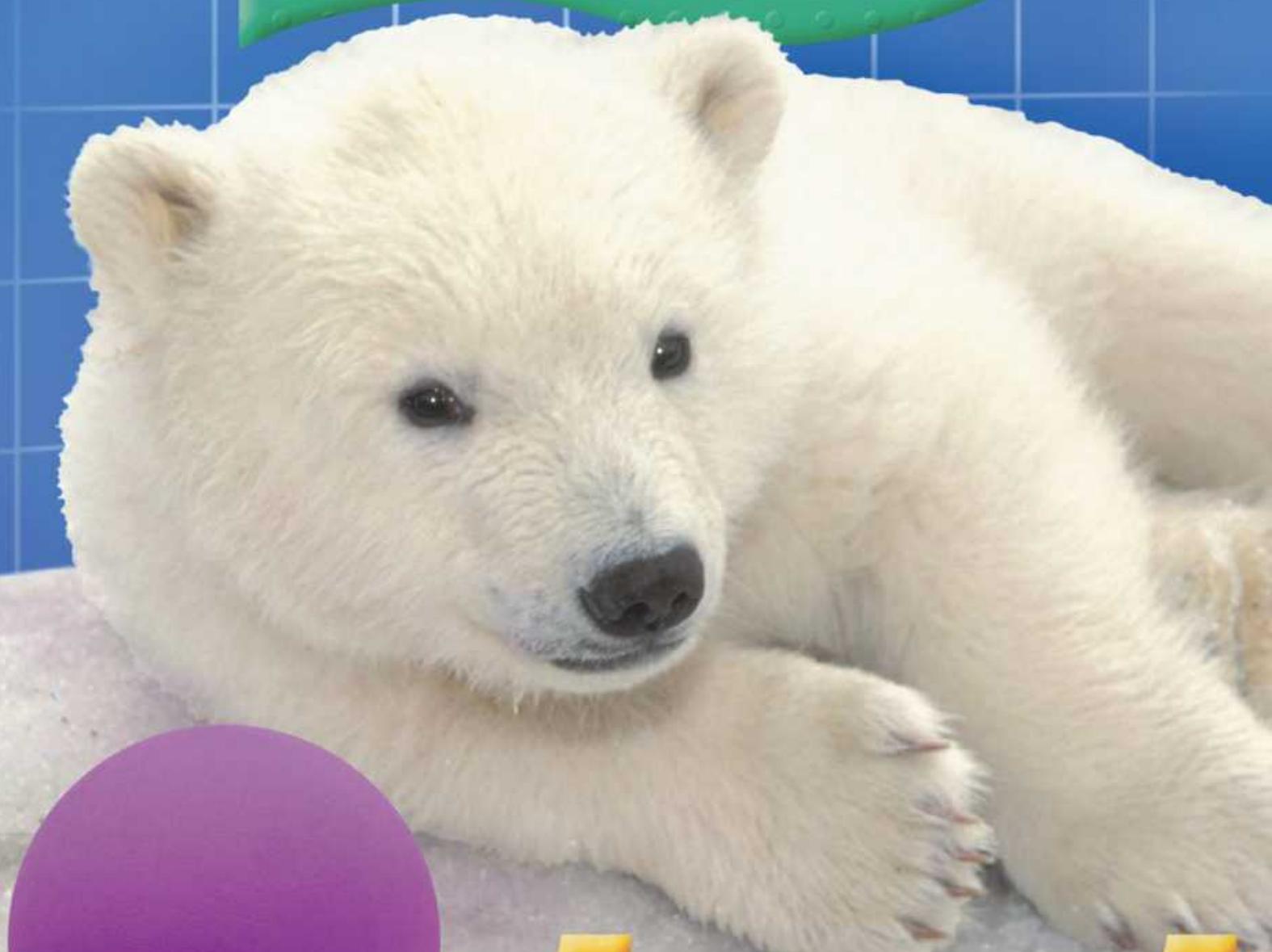


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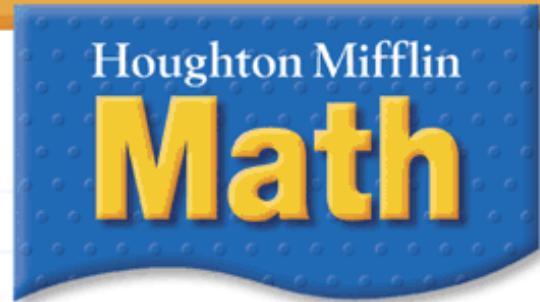
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Back to School

Welcome!



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Name _____

What I Know About Math

1. I can count to _____.

2. I can draw these shapes.



3. I know the value
of some coins.



¢

¢

¢

4. I can tell time.



:00

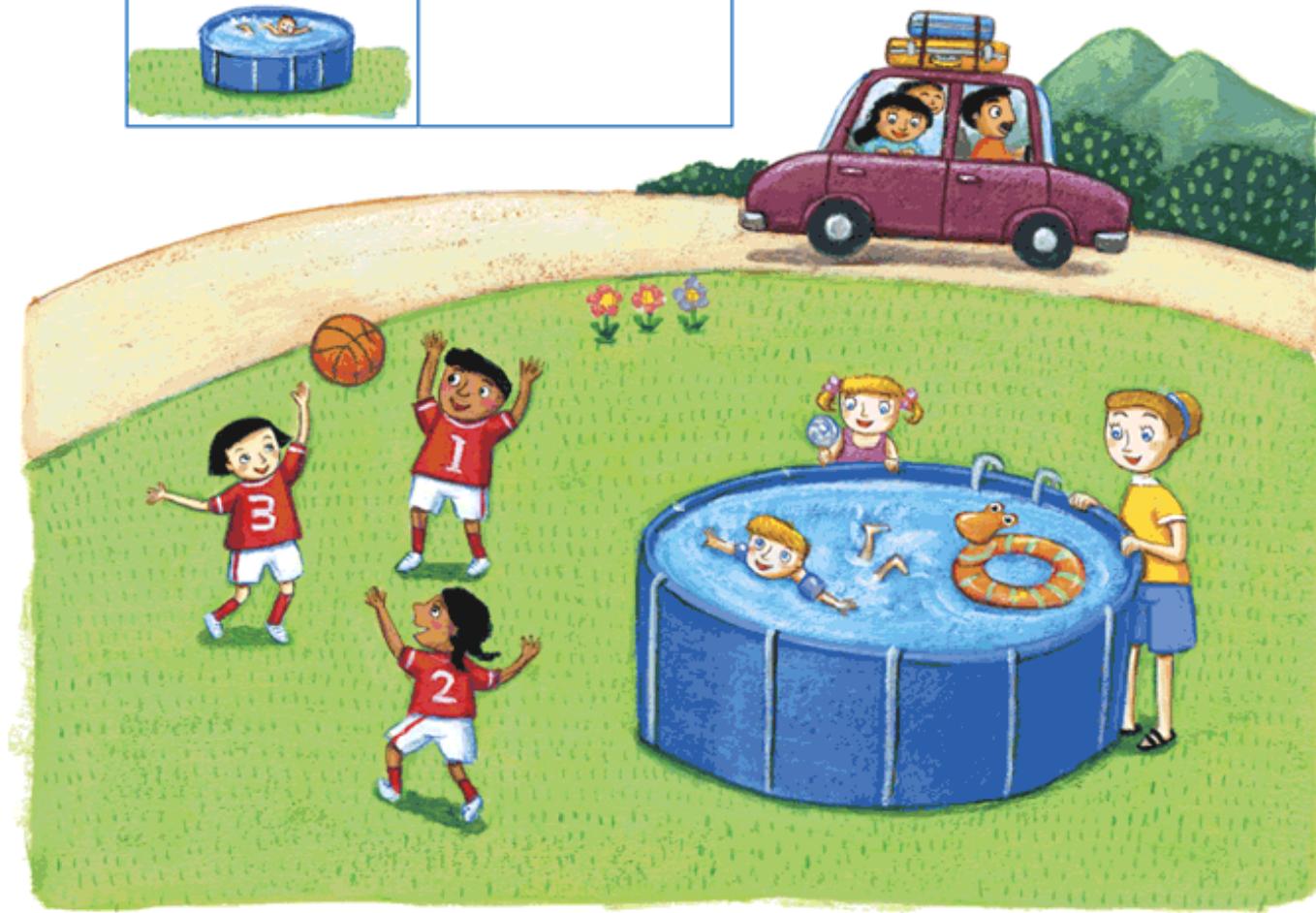


:00

Take a Survey

1. Ask 8 friends which activity they like the best.
Record tally marks to show the favorite activities.

Favorite Activities	
	
	
	



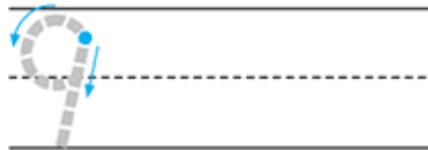
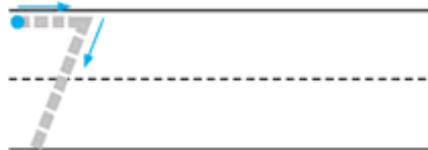
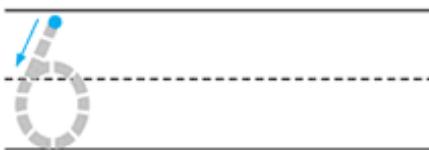
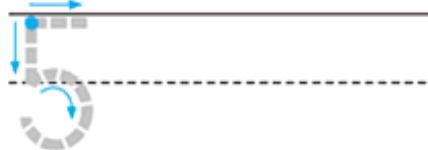
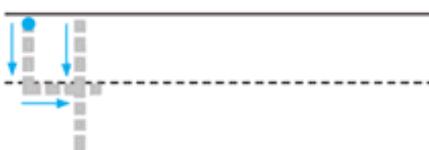
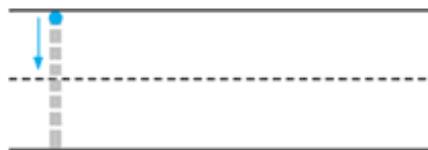
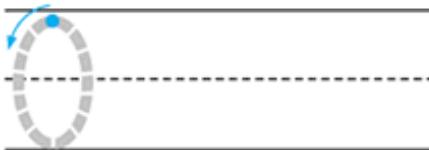
Talk About It

2. What is the favorite activity on your tally chart?

Name _____

Numbers and Number Words

1. Write the number.



2. Match the number word and the number.

six

10

ten

14

fourteen

6

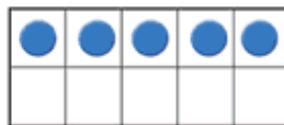


Talk About It

3. When you count what number comes before 3?

Different Ways to Show Numbers

1. Circle the ways that show 5.



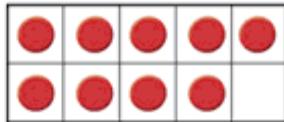
$4 + 2$



$2 + 3$



2. Draw an X on the ways that show fewer than 8. Circle the ways that show more than 8.

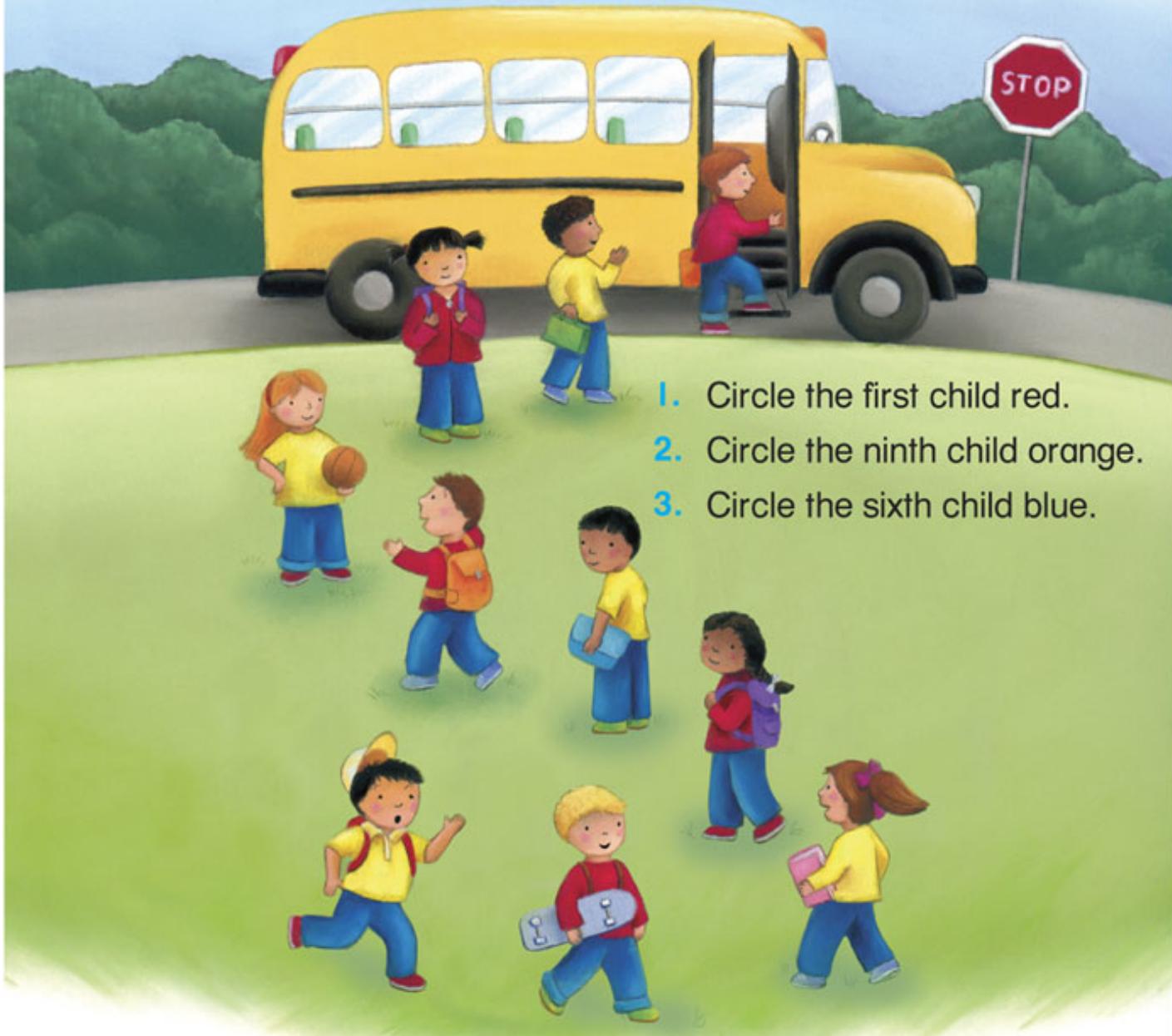


Talk About It

3. What is the greatest number shown on this page?
How do you know?

Name _____

Ordinal Numbers



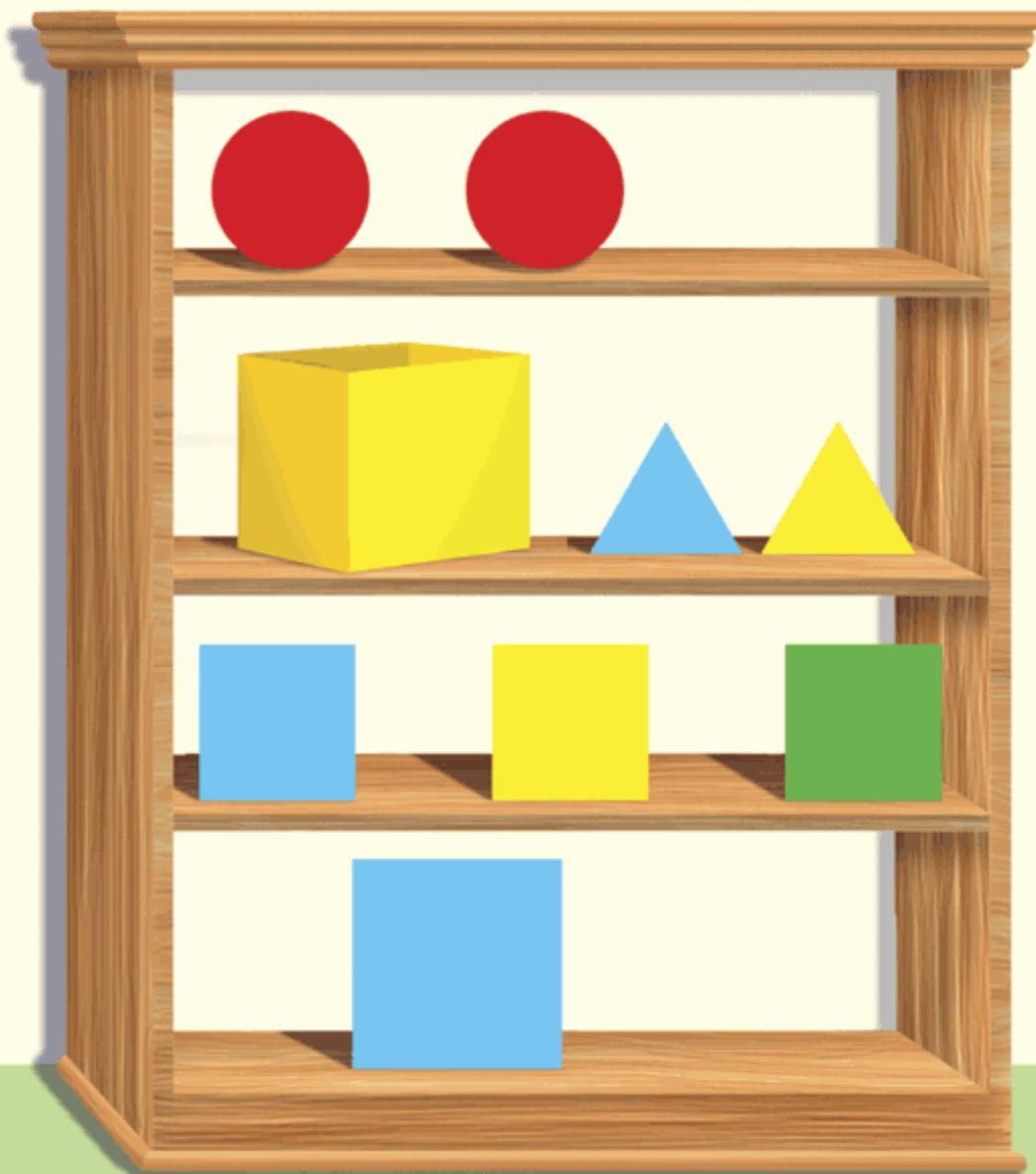
1. Circle the first child red.
2. Circle the ninth child orange.
3. Circle the sixth child blue.

Talk About It

4. What is the pattern with boys and girls?
Would a boy or girl come next in line?
5. What other patterns do you see?

Use Position Words and Classify

1. Listen to your teacher.



Talk About It

2. How are the objects on each shelf alike?
Different?

Name _____

Money

Match the coin to its name.

1. dime



2. penny



3. nickel



4. Write the value.



¢

¢



5. Draw coins to show 10¢.



Talk About It

6. Would you rather have one dime or six pennies? Why?

Calendar Time



July

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						



Use the calendar.

Circle the answer.

1. Look at the blue bar.
What does it show?

Month Week

2. Today is Tuesday.
What day is tomorrow?

Wednesday Monday

3. The calendar shows July.
Circle the season.

Winter Summer

4. Look at the green day.
What date is it?

July 16 March 16

Talk About It

5. How can you tell if there are more Mondays or Thursdays in the month shown above?

Name _____

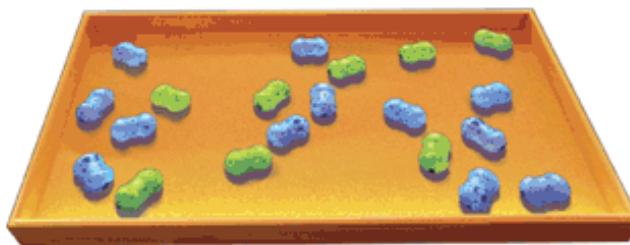
Estimating

Look at the 10 beads in the pan.



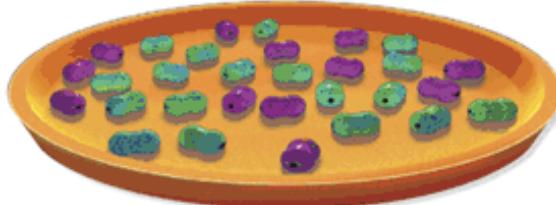
About how many beads are shown? Circle the answer.

1.



more than 10 fewer than 10 about 10

2.



more than 10 fewer than 10 about 10

3.



more than 10 fewer than 10 about 10

Talk About It

4. What helps you make an estimate?

Geometry

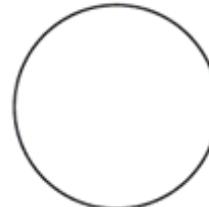


1. Write how many.









Talk About It

2. What shapes can you see in your classroom?



Number Concepts, Operations, and Graphing

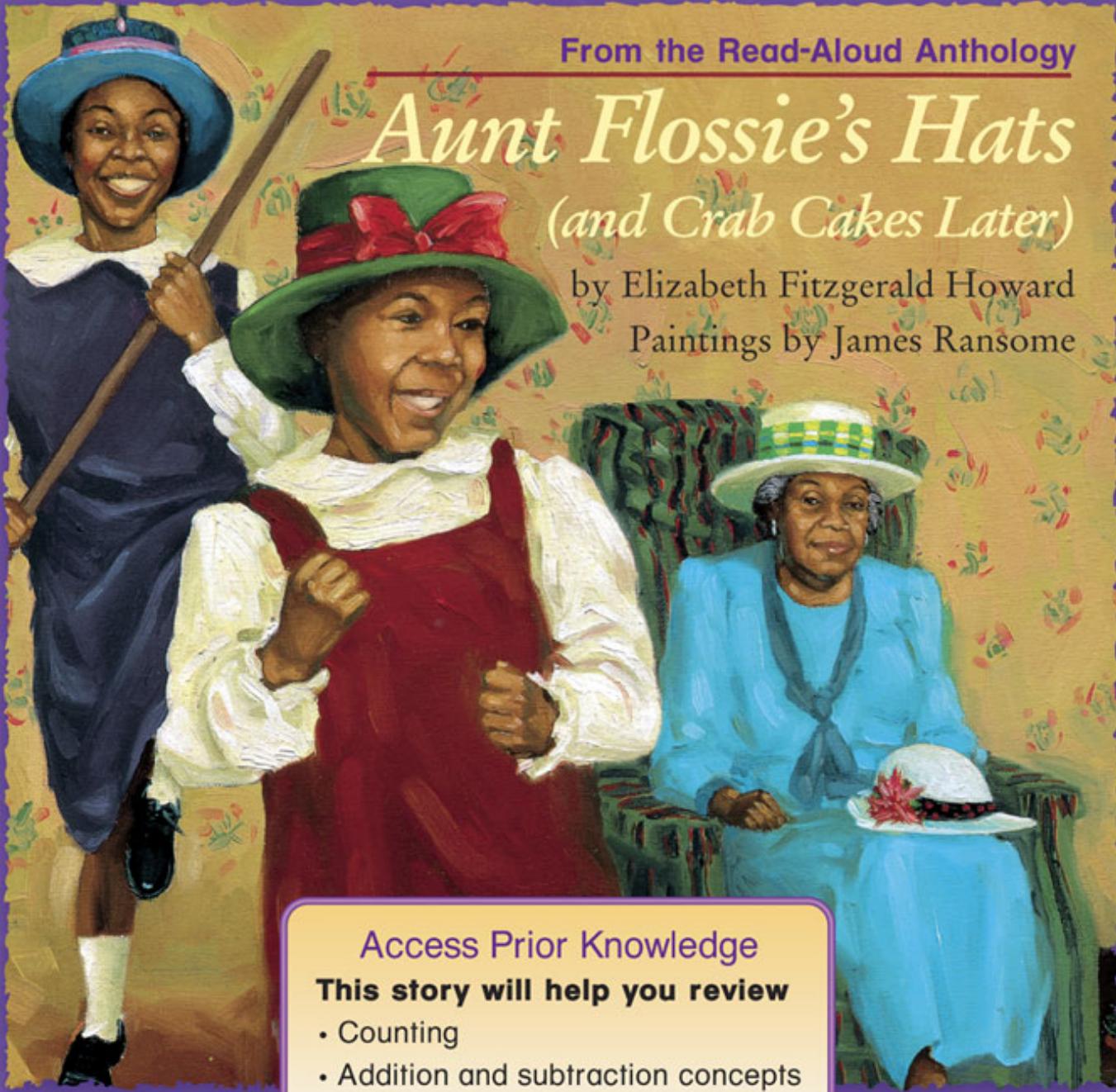
From the Read-Aloud Anthology

Aunt Flossie's Hats

(and Crab Cakes Later)

by Elizabeth Fitzgerald Howard

Paintings by James Ransome



Access Prior Knowledge

This story will help you review

- Counting
- Addition and subtraction concepts

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Hats, hats, hats, hats!
A stiff black one with bright red ribbons.
A soft brown one with silver buttons.
Thin floppy hats that hide our eyes.
Green or blue or pink or purple.



Some have fur and some have feathers.
Look! This hat is just one smooth soft rose,
but here's one with a trillion flowers!
Aunt Flossie has so many hats!



Name _____

Use the pictures on pages 1b and 1c.

Count.



1. How many hats are being worn? _____ hats

2. How many hats are not being worn? _____ hat

3. How many hats are there altogether? _____ hats

4. If you were in the picture with
a hat, how many hats would
there be?

Draw a picture of yourself
wearing a hat.

_____ hats

5. Create Your Own Aunt

Flossie has many kinds of hats. What kind of hat would you like to have? Decorate your own hat using 5 or fewer things.



How many things did you draw on your hat? _____

MATH at Home

Dear Family,



My class is starting Unit 1. I will be learning about numbers through 20, adding and subtracting, and data and graphing. These pages show what I will learn and have activities for us to do together.

From, _____

Vocabulary

These are some words I will use in this unit.

addend Each of the numbers added in an addition problem

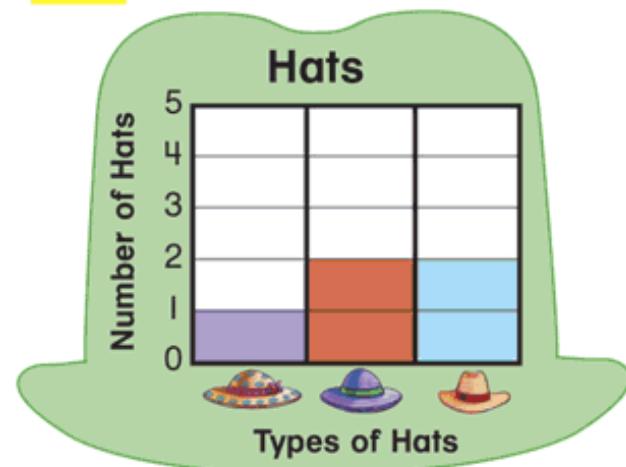
$$2 + 3 = 5$$

↑ ↑
addends

tallies Marks used to record numbers

|||| ||

graph A way to show information



Some other words I may use are **before**, **after**, **between**, **sum**, and **difference**.

Vocabulary Activity

Let's work together to complete these sentences.

1. A _____ is a way to show information.

2. In $4 + 2 = 6$, 4 is an _____.

Turn the page for more.



How To add and subtract

These addition and subtraction problems are examples of what I will be learning.

Add.



$$1 + 1 = \underline{\quad 2 \quad}$$



$$3 + 1 = \underline{\quad \quad \quad}$$

Subtract.



$$2 - 1 = \underline{\quad \quad \quad}$$



$$4 - 2 = \underline{\quad 2 \quad}$$



Literature

These books link to the math in this unit.
We can look for them at the library.

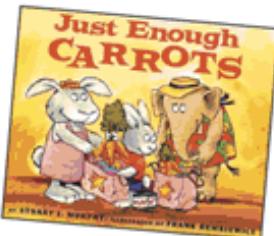
Just Enough Carrots

by Stuart J. Murphy

Illustrated by

Frank Remkiewicz

(Scott Foresman, 1997)



Over in the Meadow, a Rhyme

Illustrated by Ezra Jack Keats

The Best Vacation Ever

by Stuart J. Murphy



Education Place

We can visit *Education Place* at

eduplace.com/maf

for the Math Lingo game,
e-Glossary, and more games
and activities to do together.

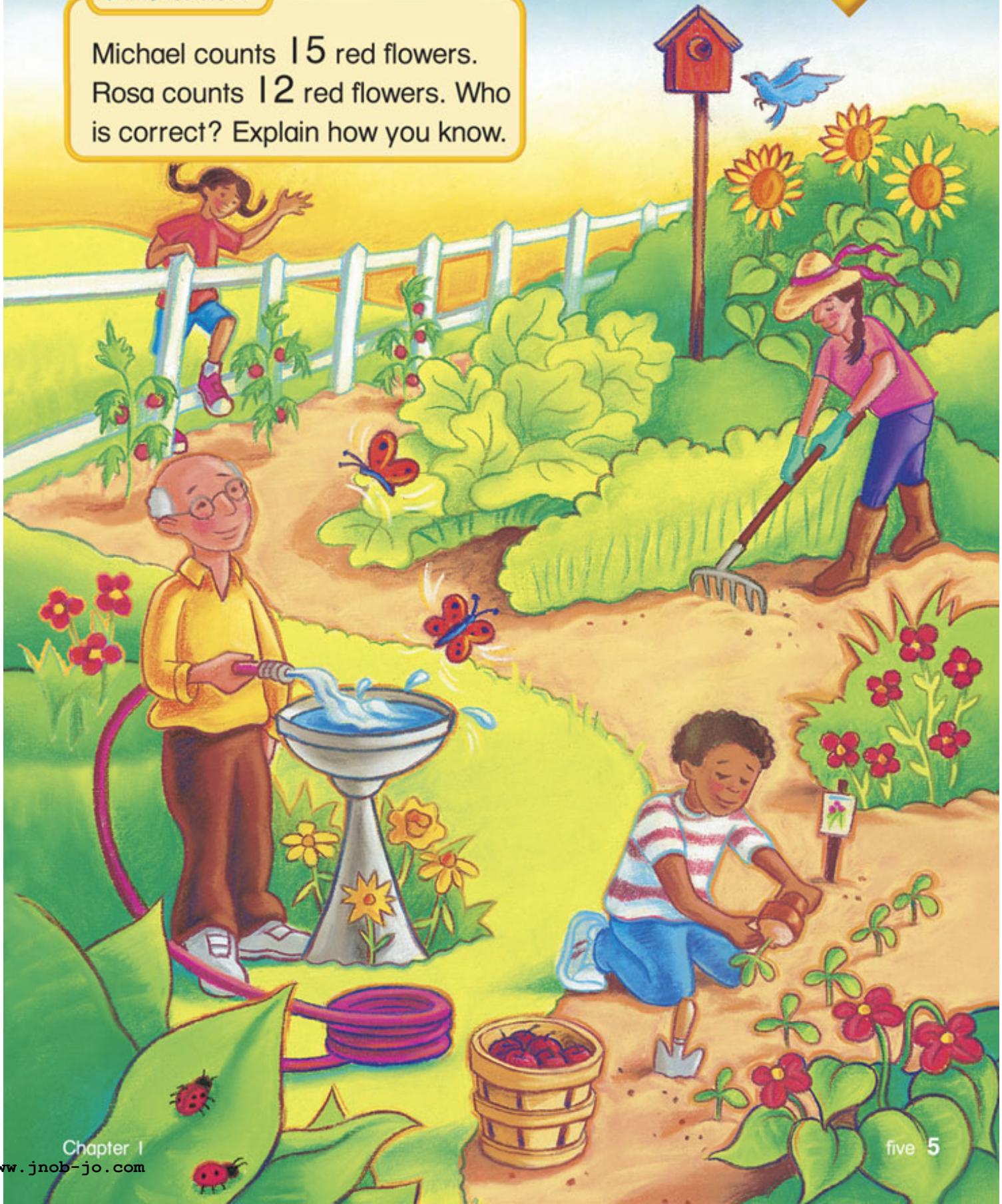


Number Concepts

CHAPTER
1

INVESTIGATION

Michael counts 15 red flowers.
Rosa counts 12 red flowers. Who
is correct? Explain how you know.

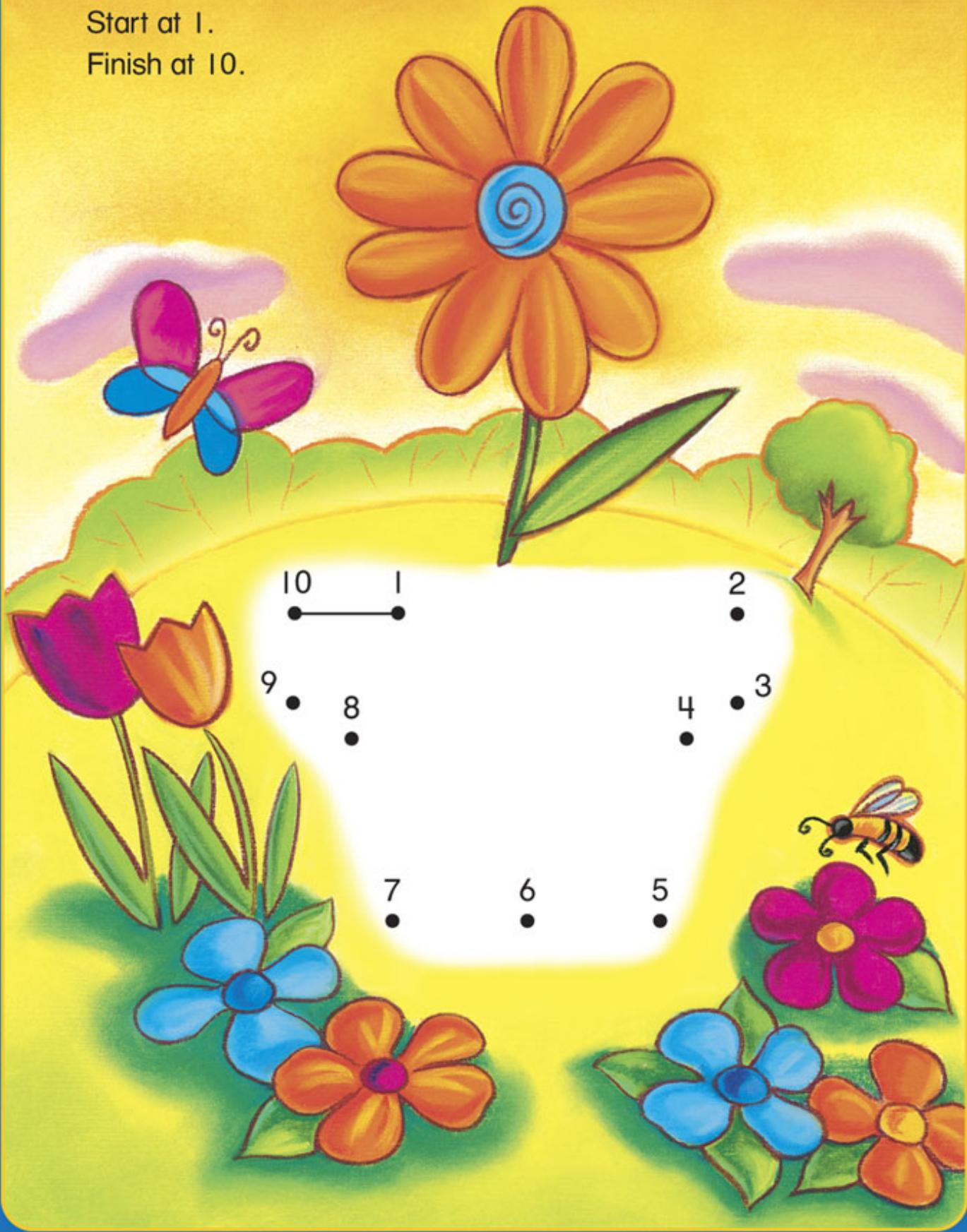




Connect the Dots

Start at 1.

Finish at 10.



Name _____

Activity: Numbers 0 Through 5



Audio Tutor 1 / 1 Listen and Understand

0 1 2 3 4 5

zero one two three four five

Objective

Count 0 through 5 objects; read and write the numbers.

Vocabulary

number words
for 0 through 5



Work Together

Use to show the number.

Draw to show how many.

1. 3



2. 2

3. 0

4. 5

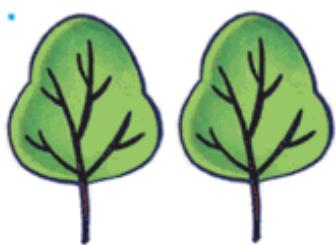
5. 4

On Your Own

Count.

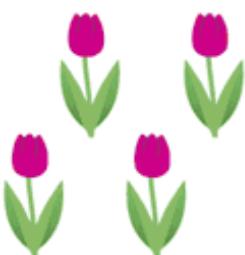
Write the number.

1.



2.
2 two

2.



4.
4 four

3.



3.
3 three

4.

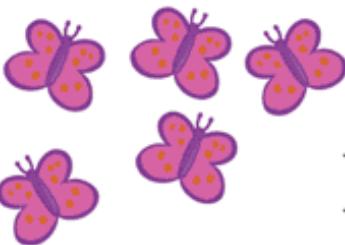
0 zero

5.



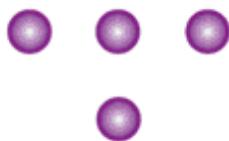
1 one

6.



5 five

7.



4 four

8.



3 three

9. **Write About It** Which set has the most? _____



Name _____

Activity: Numbers 6 Through 10



Audio Tutor 1/2 Listen and Understand



Objective

Count 6 through 10 objects; read and write the numbers.

Vocabulary

number words
for 6 through 10



6

six



7

seven



8

eight



9

nine



10

ten

Work Together

Use to show the number.

Draw to show how many.

1. 6



2. 9

3. 7

4. 10

5. 8

On Your Own

Count.

Write the number.



1.



six

2.



ten

3.



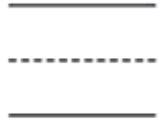
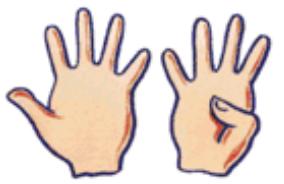
eight

4.



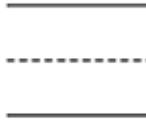
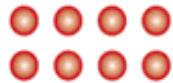
six

5.



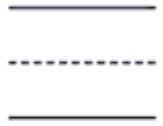
nine

6.



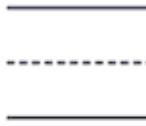
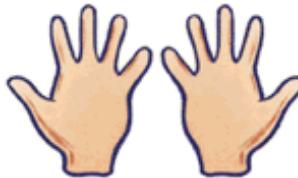
eight

7.



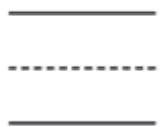
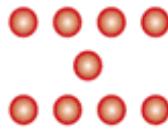
seven

8.



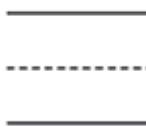
ten

9.



nine

10.



seven

11. **Talk About It** Which set has the fewest?



At Home Have your child count sets of 6 through 10 objects such as spoons or cereal.

Name _____

Order 0 Through 10



Audio Tutor 1/3 Listen and Understand

Number lines show numbers in order.

6 is just **before** 7.

8 is just **after** 7.

7 is **between** 6 and 8.

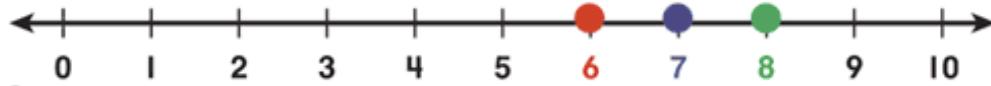


Objective

Order numbers through 10 using words.

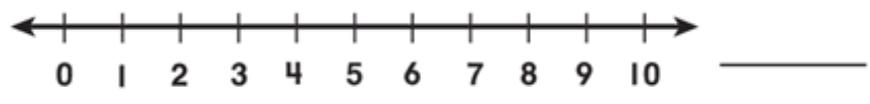
Vocabulary

number line
before
after
between



Guided Practice

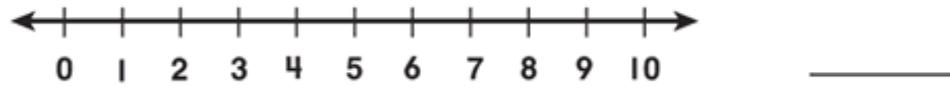
Write the numbers.



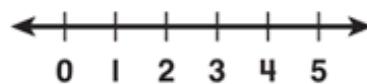
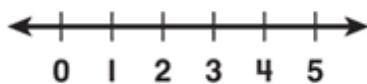
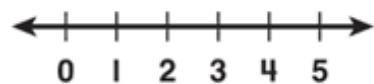
Think

Find 8 on the number line. Look at the number just before it.

1. Which number is just before 8? _____



2. Which number is between 8 and 10? _____



3. Just before _____

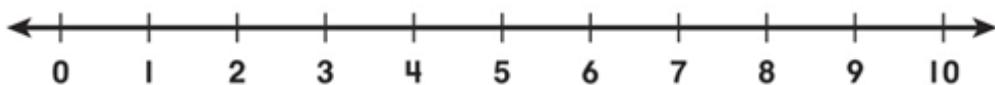
4. Between _____

5. Just before and just after _____, _____

Explain Your Thinking Tell how to use a number line to find the number just after 7.

Practice

Use the number line.



Write the numbers.

1. Just after

0, 1, 2

3, 4, 5

2. Just before

7, 8, 9

5, 6, 7

3. Between

2, 3, 4

8, 9, 10

4. Just before and just after

2, 3, 4
6, 7, 8

Problem Solving ► Number Sense

Write the missing number.

5. Jon has 1 more.

Max
8

Jon

6. Ana has 1 less.

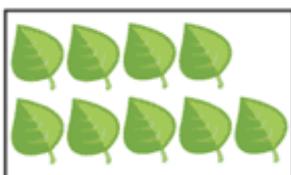
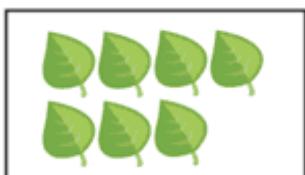
Mia
5

Ana

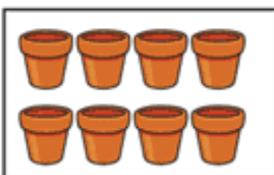
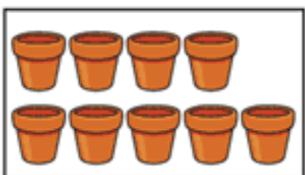


Name _____

Compare 0 Through 10



7 is **less than** 9



9 is **greater than** 8

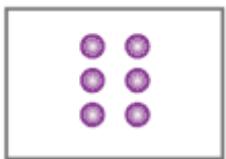
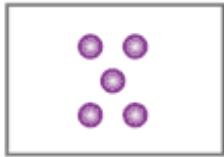


7 is **equal to** 7

Guided Practice

Circle the words that make the sentence true.

1.



5 is greater than 6
is less than

Think

5 dots is fewer than 6 dots. I know which number is less.

2.

8 is greater than 6
is less than

3.

9 is greater than 9
is equal to

Explain Your Thinking Read the answer to Exercise 3.
What does it mean?

Objective

Use pictures and words to compare numbers through 10.

Vocabulary

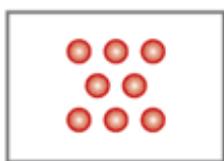
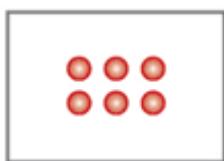
less than
greater than
equal to

Practice

Count the dots to help you compare the numbers.

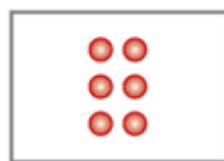
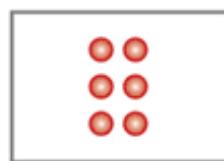
Circle the words that make the sentence true.

1.



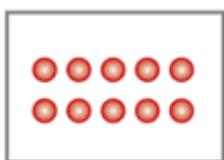
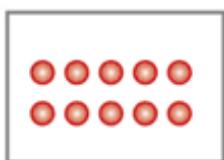
6 is greater than
is less than 8

2.



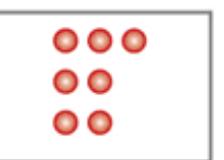
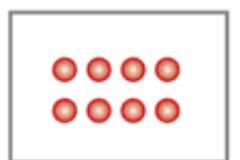
6 is greater than
is equal to 6

3.



10 is greater than
is equal to 10

4.



8 is greater than
is less than 7

5.

5 is greater than
is less than 4

6.

0 is greater than
is less than 1

7.

7 is greater than
is equal to 7

8.

4 is greater than
is less than 2

9.

9 is greater than
is less than 10

10.

3 is greater than
is equal to 3

Name _____

Problem Solving ► Number Sense

1. Draw a set with 1 more than five.



2. Draw a set of 9 or fewer seed packs.



Count the flowers.

3. Write the number.



4. Write the number word.

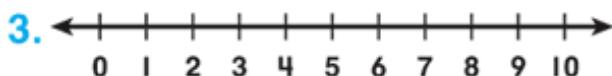


At Home Have your child explain how to compare two numbers using the words **greater than**, **less than**, and **equal to**.



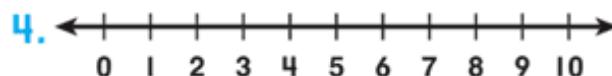
Quick Check

Write the number.



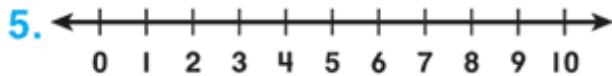
Just after

9, _____



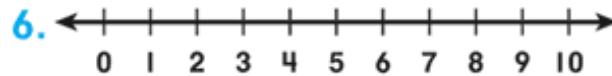
Just before

_____, 6



Between

0, _____, 2



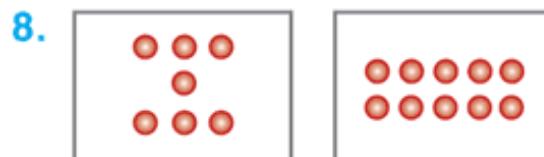
Just before and just after

_____, 4, _____

Circle the words that make the sentence true.



5 is greater than
is less than 2



7 is greater than
is less than 10

Name _____

Activity: Numbers 10 Through 15

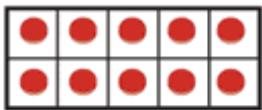


Objective

Count 10 through 15 objects;
read and write the numbers.

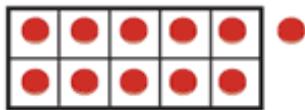
Vocabulary

number words for 10 through 15



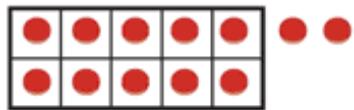
10

ten



11

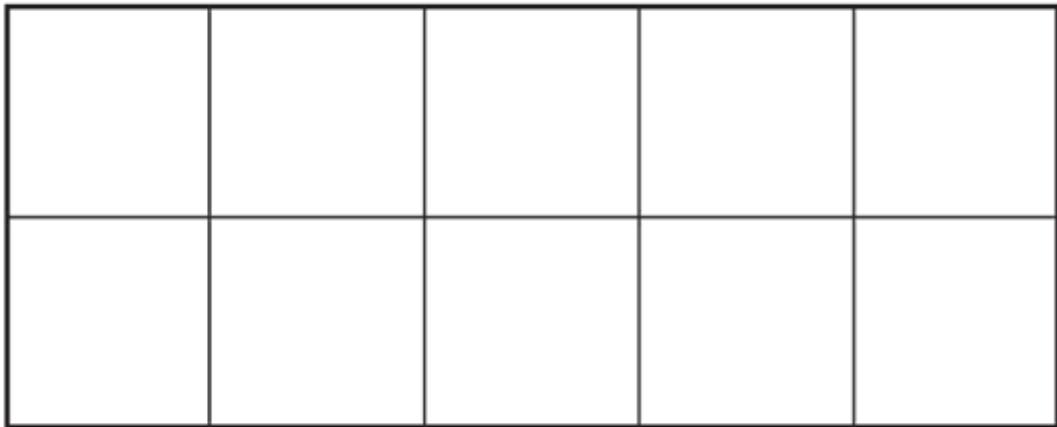
eleven



12

twelve

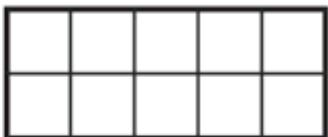
Work Together



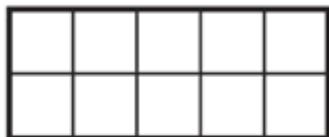
Use  to show the number in the ten frame above.

Draw to show how many.

1. 13 **thirteen**



2. 15 **fifteen**



3. 14 **fourteen**



On Your Own

Count.

Write the number.

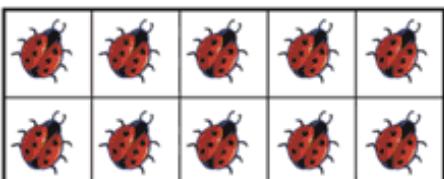
1.



13

thirteen

2.



10

ten

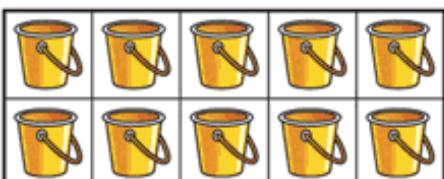
3.



12

twelve

4.



15

fifteen

5.



11

eleven

6.



14

fourteen

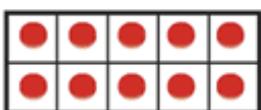
7. **Talk About It** Which set has the fewest?

Name _____

Activity: Numbers 16 Through 20



Audio Tutor 1/4 Listen and Understand



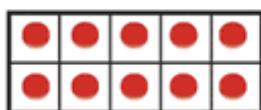
16

sixteen



17

seventeen



18

eighteen

Hands-On

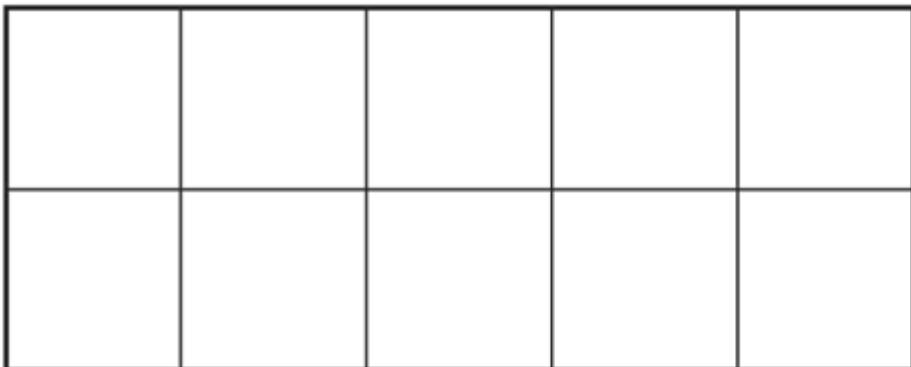
Objective

Count 16 through 20 objects; read and write the numbers.

Vocabulary

number words for 16 through 20

Work Together

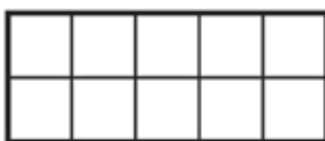


Use to show the number in the ten frames above.

Draw to show how many.

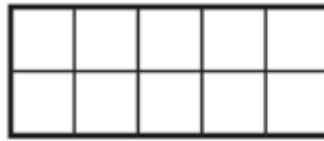
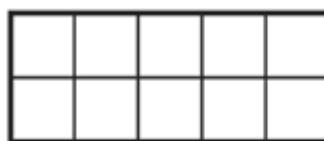
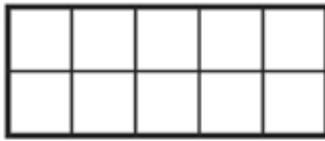
1. 19

nineteen



2. 20

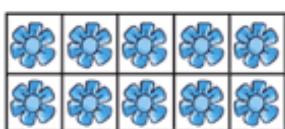
twenty



On Your Own

Count. Write the number.

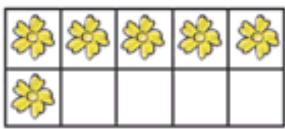
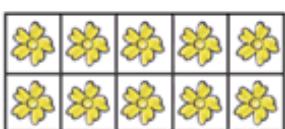
1.



18

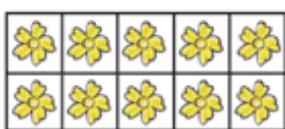
eighteen

2.



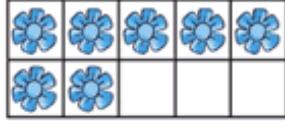
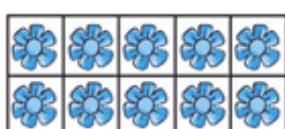
sixteen

3.



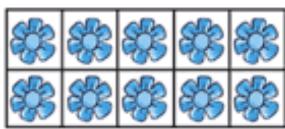
twenty

4.

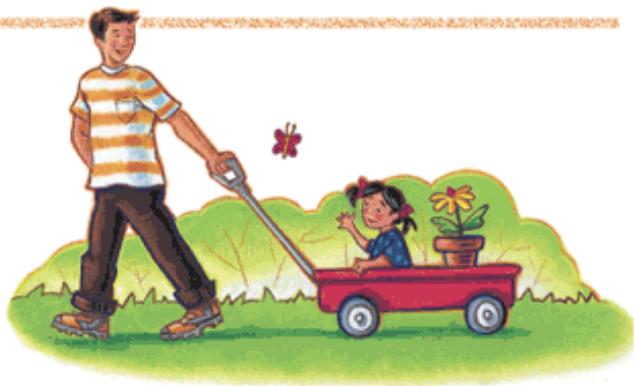


seventeen

5.



nineteen



6. **Talk About It** Which set has the most? How do you know?

Choose a number from 10 through 20.

9. Draw that many flowers.

7. Write the number.

8. Write the number word.



At Home Ask your child to count sets of up to 20 objects and write the number for each set.

Name _____

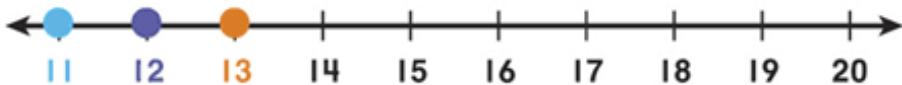
Order 11 Through 20

Objective

Order the numbers 11 through 20 using words.

You learned that number lines can help you put numbers in order.

11 is just before 12.

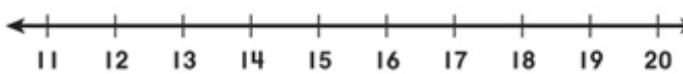


13 is just after 12.

12 is between 11 and 13.

Guided Practice

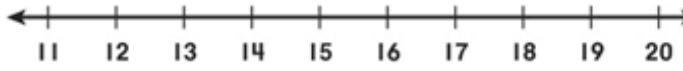
Write the numbers.



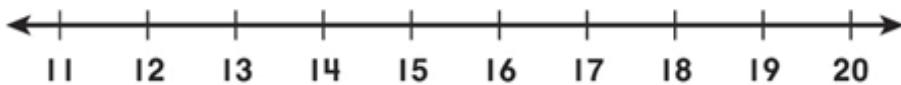
1. Which number is just before 18? _____

Think

Find 18 on the number line. Look at the number just before it.



2. Which number is between 13 and 15? _____



3. Just before _____

4. Between _____

5. Just before and just after _____

_____, 12, 13

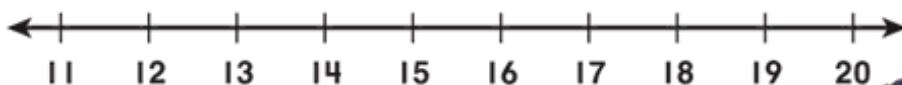
17, _____, 19

_____, 16, _____

Explain Your Thinking Tell how to use a number line to find the number just after 19.

Practice

Use the number line.



Write the numbers.

1. Just after

11, 12, 13

17, 18,

3. Between

13, , 15

18, , 20

2. Just before

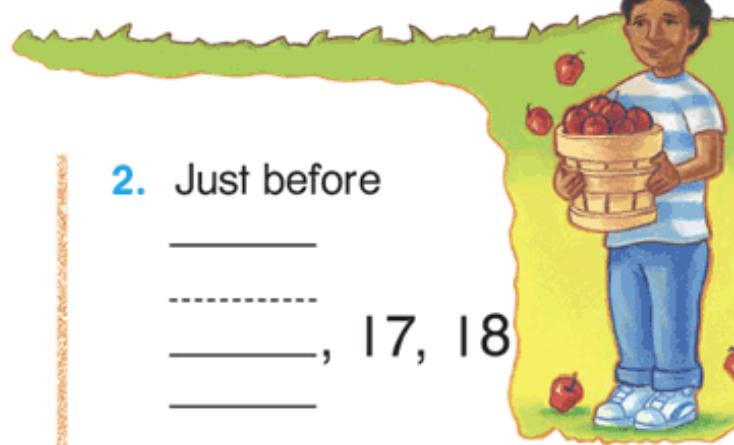
 , 17, 18

 , 15, 16

4. Just before and just after

 , 13,

 , 16,



Problem Solving ► Number Sense

Write the missing numbers.

5. What two numbers are between 14 and 17?

6. What two numbers are between 11 and 14?



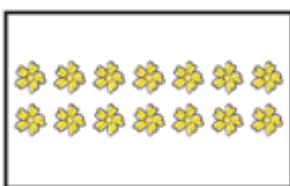
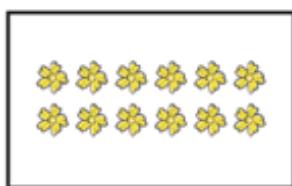
At Home Open a book to a page between 11 and 20. Read the page number and ask your child to identify the numbers just before and just after that number.

Name _____

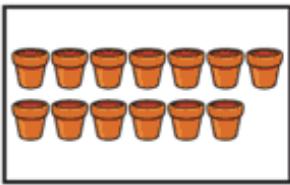
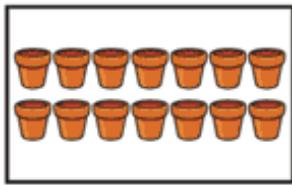
Compare 11 Through 20

Objective

Use pictures and words to compare the numbers 11 through 20.



12 is less than 14



14 is greater than 13

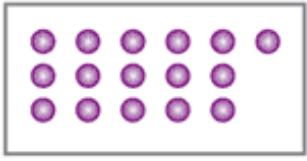
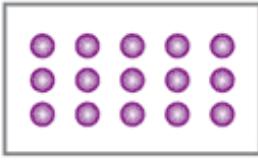


12 is equal to 12

Guided Practice

Circle the words that make the sentence true.

1.



15 is greater than 16
is less than

Think
15 dots is fewer than 16 dots. I know which number is less.

2.

20 is greater than 18
is less than

3.

17 is greater than 17
is equal to

Explain Your Thinking Read the answer to Exercise 3.

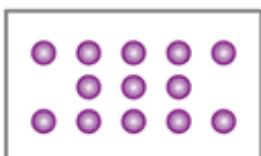
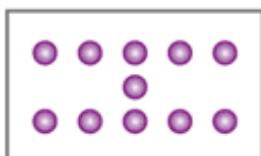
What does it mean?

Practice

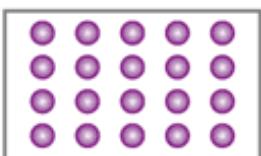
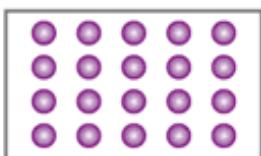
Count the dots to help you compare the numbers.

Circle the words that make the sentence true.

1.



2.



11

is greater than

is less than

13

20

is greater than

is equal to

20

3.

19

is greater than

is less than

17

4.

12

is greater than

is less than

16

5.

15

is greater than

is equal to

15

6.

14

is greater than

is less than

11

Problem Solving ► Number Sense

7. Write two numbers that are greater than 10 but less than 20.

8. Write two numbers that are less than 10.

When you compare three or more numbers you use the words **greatest** and **least**.

9. **Write About It** Put the four numbers _____ you wrote above in order from greatest to least.



Name _____

Draw a Picture

Celia has 6 hats.

Han has 1 more hat than Celia.

How many hats does Han have?

Objective

Draw pictures to solve problems.

UNDERSTAND

What do you know?

- Celia has 6 hats.
- Han has 1 more hat than Celia.



PLAN

Start with Celia's hats.

Celia has 6 hats.

SOLVE

Draw a picture.

Draw to show
Celia's hats.



Draw 1 more hat
to show Han's hats.



Count all of the hats.

How many hats does Han have?

7 hats

LOOK BACK

Does your answer make sense?

Guided Practice

Draw a picture to solve.

Remember:
► Understand
► Plan
► Solve
► Look Back



1. Amy has 9 bugs. Erin has 1 fewer bug than Amy. How many bugs does Erin have?

Think

Start with Amy's 9 bugs.

Erin has _____ bugs.

2. There are 10 flowers. There is the same number of red flowers as orange flowers. How many flowers are there of each color?

Think

Draw 1 red flower and 1 orange flower until you have drawn 10 flowers.

_____ red

_____ orange

Practice

3. Abby has 7 pots. Jan has 1 more pot than Abby. How many pots does Jan have?

Jan has _____ pots.

4. There are 8 birds. There is the same number of blue birds as yellow birds. How many birds are there of each color?

_____ blue

_____ yellow

Name _____

Strategies

Act It Out With Models

Draw a Picture

Use a Picture

Mixed Problem Solving

Solve.

1. Chi has 9 bowler hats. Jane has 1 more bowler hat than Chi. How many bowler hats does Jane have?

Draw or write to explain.



Jane has _____ hats.

2. Find the bag with the fewest yo-yos. How many yo-yos are in the bag?



_____ yo-yos



3. Jack has 10 baseball cards. Lee has 1 fewer. How many cards does Lee have?



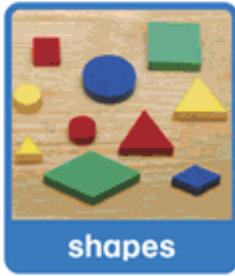
baseball card

_____ cards

4. Ms. Sato uses shapes to make this pattern. How many triangles has she used?



_____ triangles



shapes



At Home Use collections to create problems that your child can solve by drawing a picture.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. There are **8** balls in a box. There is the same number of red balls as orange balls. How many balls are there of each color?

Show your work using pictures, numbers, or words.

_____ red balls

_____ orange balls

2. Tad has **8** blocks in a bag. Ramón has **2** fewer blocks than Tad. How many blocks does Ramón have?

_____ blocks

Multiple Choice

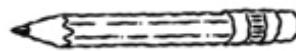
Listen to your teacher read the problem.

Choose the correct answer.

3. 5 7 8 9



4. 12 10 9 2



Name _____

Now Try This Counting Forward and Backward

1. Write the missing numbers.



Count backward. Write the numbers.

2. 20, 19, 18, 17, _____, _____, _____, _____, _____, _____, _____, _____, _____, 10, _____, _____, _____, _____, _____, _____, _____, _____, _____, _____, _____, 5, _____, _____, _____, _____, _____

3. **Talk About It** Take turns with a classmate. Pick a number between 10 and 20. Count backward to 0 from that number.

Problem Solving

Social Studies Connection Mancala

Mancala is an African game.
It is played with beads or stones.

Compare the number of beads
in each pile off the board. Circle the
words that make the sentence true.



14 is greater than
is less than



17



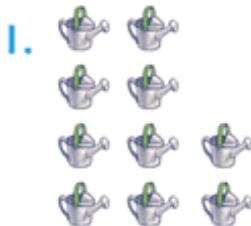
12 is less than
is equal to

WEEKLY WR READER eduplace.com/map

Key Topic Review

Number

Write the number.



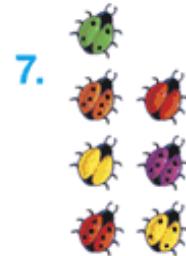


















Name _____



Chapter Review/Test

Vocabulary

Write the words to complete the sentence.

greater than

less than

equal to

1. 5 is _____ 7.

2. 6 is _____ 3.

Concepts and Skills

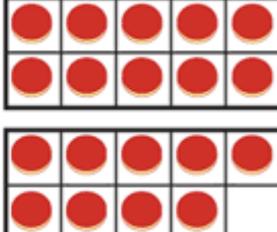
Count.

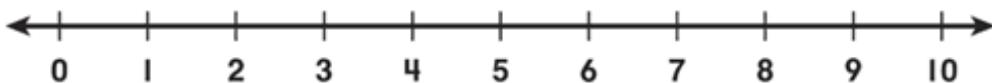
Write the number.

3.  _____

4.  _____

5.  _____

6.  _____



7. Just after

8. Just before

3, _____

_____, 6



Chapter Review/Test

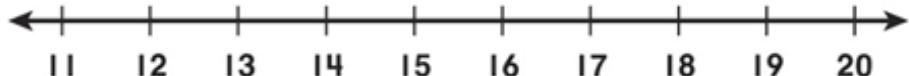
Circle the words that make the sentence true.

9. 8 is greater than
is equal to

8

10. 5 is greater than
is less than

3



Use the number line.

Write the number.

11. Just before

_____, 14

12. Between

18, _____, 20

Circle the words that make the sentence true.

13. 18 is greater than
is less than

17

14. 13 is greater than
is less than

15

Problem Solving

Draw a picture to solve.

15. There are 6 pots. There is the same number of green pots as yellow pots. How many pots are there of each color?

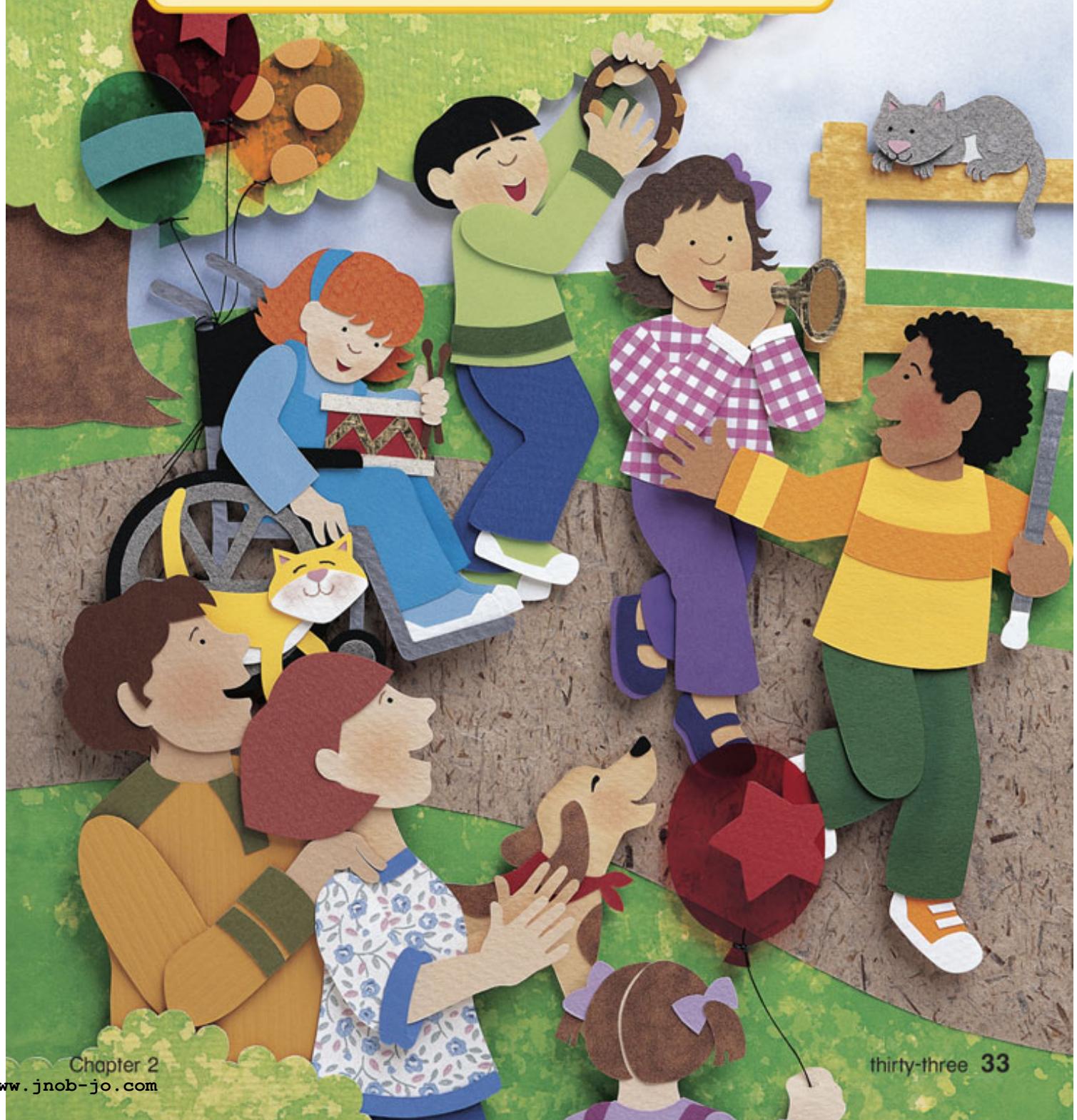
_____ green

_____ yellow

Addition Concepts

INVESTIGATION

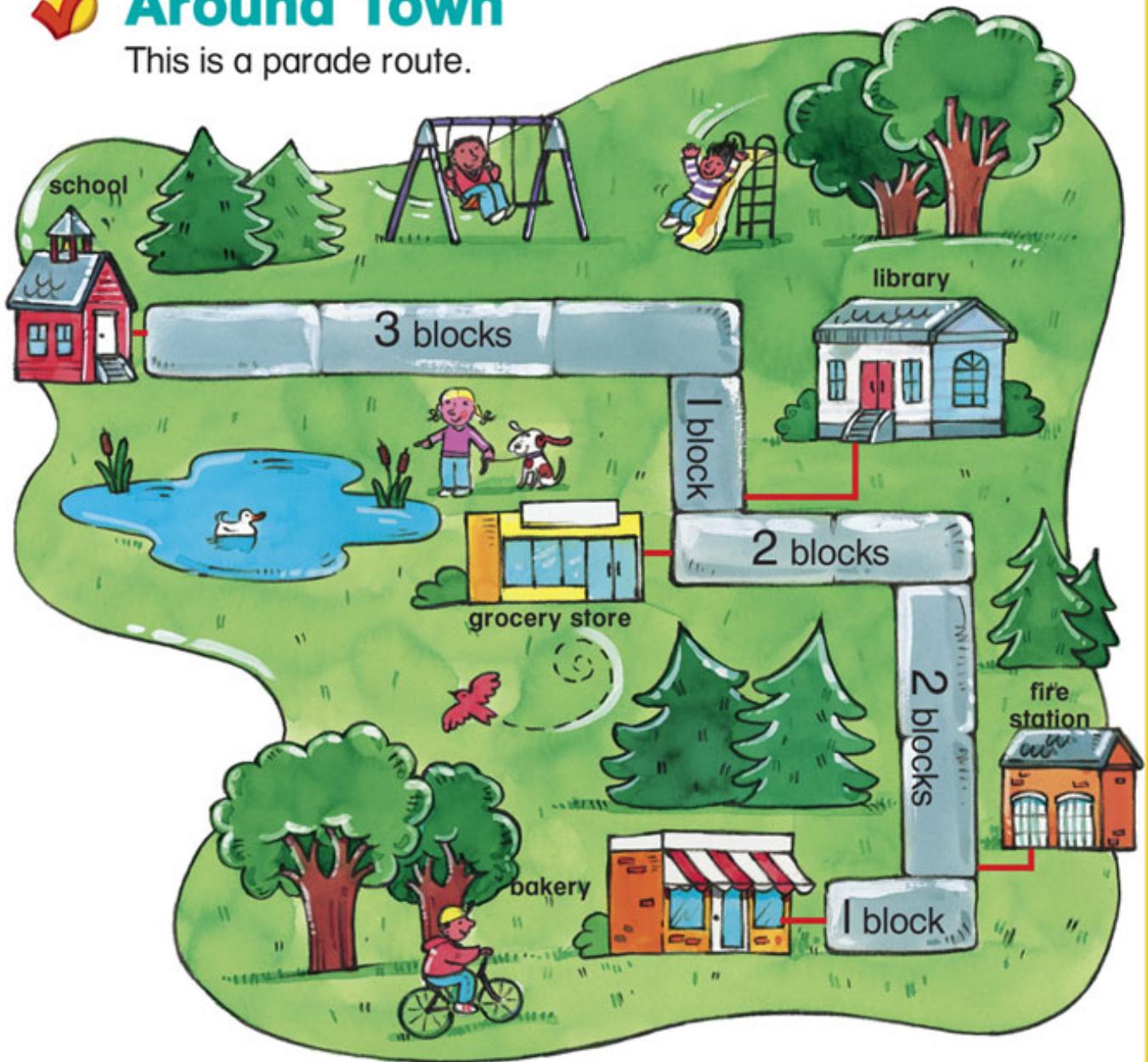
Use the picture to find ways to make 6 by putting two groups together. Draw a picture of the groups, tell a story, and write the numbers.





Around Town

This is a parade route.



Use the parade route to answer the question.

1. How many blocks is it from the to the ?



_____ blocks

2. How many blocks is it from the to the ?



_____ blocks

Name _____

Activity: Addition Stories

Hands-On

Work Together

Listen to the story.

Show the story with  .



Objective

Model the concept of addition as increasing.

1.



2. **Talk About It** How do you know if your answer is correct?

On Your Own

Listen for the numbers in the story.

Show the story with  .

Write the numbers.

1.



2 girls

2 boys

4 in all

2.



2 drums

2 horns

4 in all



At Home Place a set of 2 objects and a set of 3 objects on a table. Ask your child how many objects there are in all.

Name _____

Model Addition



Audio Tutor 1/5 Listen and Understand

You **add** the **parts** to find the **whole**.

Objective

Model the concept of addition as part-part-whole.

Vocabulary

add part whole



Workmat 3

Whole	
Part	Part
3	2

Workmat 3

Whole	
Part	Part
3	2

Whole

Red	Yellow
3	2

Whole

Red	Yellow
3	2



Guided Practice

Use Workmat 3 and .

Show the parts. Find the whole.

1.

Whole

Red	Yellow
1	3

Think
I add 1 and 3
to find the whole.

2.

Whole

Red	Yellow
2	3

Explain Your Thinking What does the word **add** mean?

Practice

Add the parts to find how many in all.

Use Workmat 3 and .

Show the parts. Find the whole.



1.

Whole	
<u>3</u>	
Red	Yellow
1	2

2.

Whole	
<u> </u>	
Red	Yellow
2	3

3.

Whole	
<u> </u>	
Red	Yellow
3	1

4.

Whole	
<u> </u>	
Red	Yellow
3	2

5.

Whole	
<u> </u>	
Red	Yellow
2	2

6.

Whole	
<u> </u>	
Red	Yellow
1	4

Problem Solving ► Number Sense

Write the parts.

Write the whole.

7.

Whole	
<u> </u>	
Red	Yellow
<u> </u>	<u> </u>



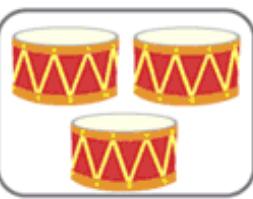
Name _____

Use Symbols to Add



Audio Tutor 1/6 Listen and Understand

Use the **plus sign** and **equal sign** to write an **addition sentence**.



$$3 + 1 = \underline{\quad}$$

plus sign equal sign

The sum tells how many in all.



Think

I need to add the parts.

Guided Practice

Write the sum.

1.



$$2 + 4 = \underline{\quad}$$

2.



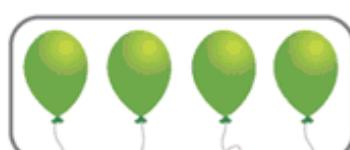
$$3 + 2 = \underline{\quad}$$

3.



$$3 + 3 = \underline{\quad}$$

4.



$$1 + 4 = \underline{\quad}$$

Explain Your Thinking When you find the sum, are you finding the parts or the whole? Tell how you know.

Objective

Solve addition sentences using + and =.

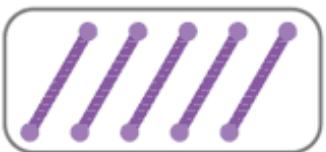
Vocabulary

plus sign
equal sign
sum
addition sentence

Practice

Write the sum.

Find the sum
by putting the
objects together.

1. 

$$5 + 1 = \underline{6}$$

2. 

$$2 + 1 = \underline{\quad}$$

3. 

$$2 + 2 = \underline{\quad}$$

4. 

$$2 + 3 = \underline{\quad}$$

5. 

$$4 + 2 = \underline{\quad}$$

6. 

$$4 + 1 = \underline{\quad}$$

7. 

$$1 + 1 = \underline{\quad}$$

8. 

$$1 + 2 = \underline{\quad}$$

Problem Solving ➤ Visual Thinking

9. Circle the picture that shows $1 + 4 = 5$.



1



4



At Home Have your child cut out pictures from magazines and paste them onto blank paper to create addition stories with sums of 6 or less.

Name _____

Add With Zero

When you add **zero** to any number, the sum is that number.

There are **4** drums.

There are none added.

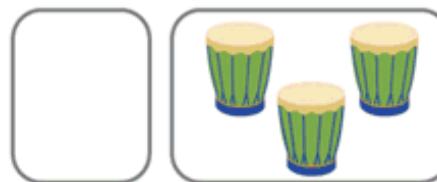


$$\underline{4} + \underline{0} = \underline{4}$$

There are still **4** drums.

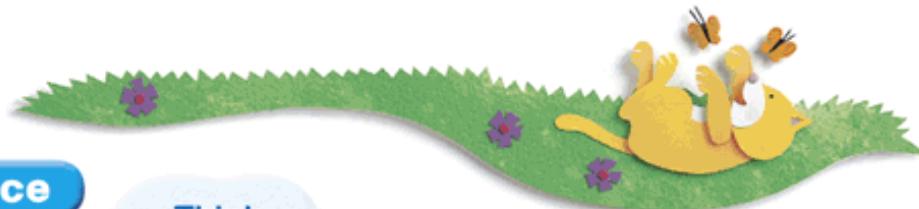
There are no drums.

3 drums are added.



$$\underline{0} + \underline{3} = \underline{3}$$

There are **3** drums.



Guided Practice

Write the sum.

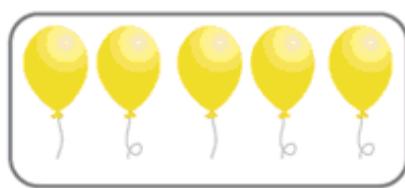
1.



Think

There is 1 flag.
None are added.

2.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

3. $3 + 0 = \underline{\quad}$

4. $0 + 2 = \underline{\quad}$

5. $6 + 0 = \underline{\quad}$

Explain Your Thinking What other words can you use for zero?

Objective

Solve addition problems with zero.

Vocabulary

zero

Practice

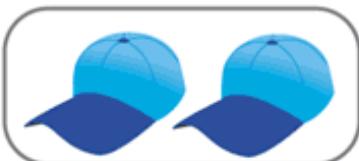
Remember, when you add zero to any number, the sum is that number.

Write the sum.

1.



2.



$$3 + 0 = \underline{3}$$

$$0 + 2 = \underline{\quad}$$

3. $4 + 0 = \underline{\quad}$

4. $2 + 3 = \underline{\quad}$

5. $0 + 4 = \underline{\quad}$

6. $2 + 1 = \underline{\quad}$

7. $5 + 0 = \underline{\quad}$

8. $3 + 3 = \underline{\quad}$

9. $2 + 4 = \underline{\quad}$

10. $0 + 6 = \underline{\quad}$

11. $1 + 4 = \underline{\quad}$

12. $0 + 1 = \underline{\quad}$

13. $2 + 2 = \underline{\quad}$

14. $5 + 1 = \underline{\quad}$

15. $3 + 1 = \underline{\quad}$

16. $4 + 2 = \underline{\quad}$

17. $0 + 0 = \underline{\quad}$

Reading Math Vocabulary

Write the addition sentence.

18. Four plus two equals six.

_____  _____  _____

19. Three plus zero equals three.

_____  _____  _____



Name _____

Writing Math: Create and Solve



Write an addition story about the children above.

Complete the addition sentence.

1. _____

2. _____ + _____ = _____ children

Write a story to match the number sentence. $3 + 3 = 6$

3. _____

Draw a picture to show your story.

4. A large, empty square box with a double-lined border, intended for the student to draw a picture related to their story.



Quick Check

Show the story with .

Write the numbers.

1.



_____ cat

_____ dogs

_____ in all

Use Workmat 3 and .

Show the parts. Find the whole.

2.

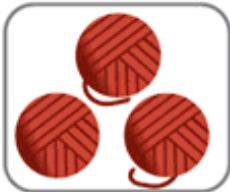
Whole	
Red	Yellow
4	1

3.

Whole	
Red	Yellow
3	1

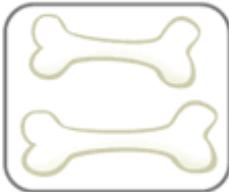
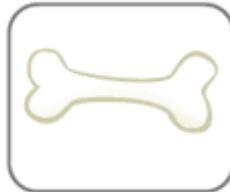
Write the sum.

4.



$$2 + 3 = \underline{\quad}$$

5.



$$1 + 2 = \underline{\quad}$$

6. $3 + 0 = \underline{\quad}$

7. $0 + 0 = \underline{\quad}$

8. $0 + 6 = \underline{\quad}$

9. $2 + 2 = \underline{\quad}$

10. $4 + 2 = \underline{\quad}$

11. $5 + 0 = \underline{\quad}$

Name _____

Add in Any Order

You can change the **order** of the **addends** and get the same sum.

Objective

Understand the order property of addition.

Vocabulary

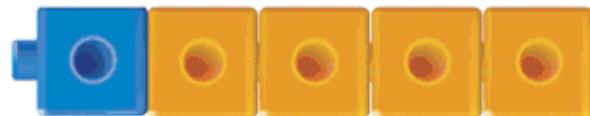
order addend

Make a cube train.



$$\underline{4} + \underline{1} = \underline{5}$$

Turn it around.



$$\underline{1} + \underline{4} = \underline{5}$$

Guided Practice

Use cubes. Make the train.

Complete the addition sentences.

1. Make a 3 train.

$$\underline{2} + \underline{1} = \underline{3}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Think
2 plus 1 equals 3.
I change the order of
the addends to complete
the sentence.



2. Make a 6 train.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

3. Make a 4 train.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Explain Your Thinking Why is the sum of $5 + 1$ the same as $1 + 5$?

Practice

Remember to turn
your train around.

Use cubes. Make the train.
Complete the addition sentences.



1. Make a 6 train.

$$\underline{5} + \underline{1} = \underline{6}$$

$$\underline{1} + \underline{5} = \underline{6}$$

2. Make a 5 train.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Add. Then change the order of the addends and add.

3. $2 + 3 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

4. $5 + 0 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

5. $0 + 3 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

6. $3 + 3 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Algebra Readiness ► Functions

Use the rule. Write the sum.

7.

Rule: Add 1

2	3
3	4
4	
5	

8.

Rule: Add 2

2	4
3	5
4	
5	



At Home Write one of the addition sentences that appear on this page.

Have your child change the order and write a new addition sentence. Repeat.



Name _____

Ways to Make Numbers

Objective

Complete addition sentences with sums of 7 and 8 using two addends.

There are different ways to make a number.

Here are two ways to make 8.



$$\underline{1} + \underline{7} = \underline{8}$$



$$\underline{2} + \underline{6} = \underline{8}$$

Guided Practice

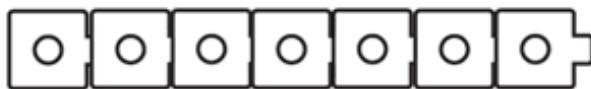
Use two colors to show a way to make 7.

Complete the addition sentence.

Think

I can use 5 blue cubes and 2 red cubes.

1.



$$\underline{5} + \underline{2} = \underline{7}$$

2.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Explain Your Thinking Look at the sentence in Exercise 1. Explain why you get the same sum if you add $2 + 5$.

Practice

Remember there
are many ways to
make a sum.



Use two colors to show a way to make 7.

Complete the addition sentence.



$$3 + \underline{\hspace{1cm}} = 7$$



$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Use two colors to show a way to make 8.

Complete the addition sentence.



$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Use cubes.

Find more ways to make 8.

5. $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

6. $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

7. $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

8. $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

Algebra Readiness ► Properties

Use cubes. Write the missing number.

9. $2 + 1 = 1 + \underline{\hspace{1cm}}$

10. $3 + 2 = \underline{\hspace{1cm}} + 3$

11. $4 + \underline{\hspace{1cm}} = 2 + 4$

12. $\underline{\hspace{1cm}} + 5 = 5 + 2$



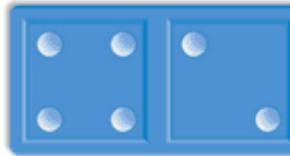
Name _____

Add in Vertical Form

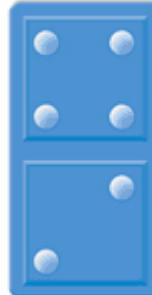


Audio Tutor 1/7 Listen and Understand

You can write the same addition fact in two ways.
Add across. Add down.



$$\underline{4} + \underline{2} = \underline{6}$$



$$\begin{array}{r} \text{four} \\ + 2 \\ \hline 6 \end{array}$$

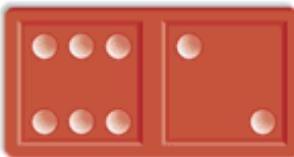
The sum is the same.



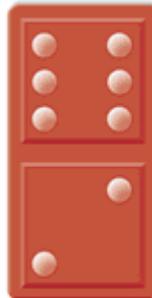
Guided Practice

Complete the addition fact.

1.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

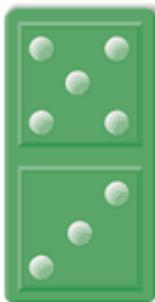


$$\begin{array}{r} \text{five} \\ + \quad \\ \hline \quad \end{array}$$

Think

The number of dots is the same, so the sum is the same.

2.



$$\begin{array}{r} \quad \\ + \quad \\ \hline \quad \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Explain Your Thinking Write $6 + 1$ in two ways.

Why is the sum the same?

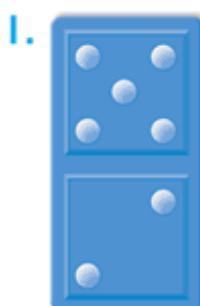
Objective

Write addition sentences in vertical form.

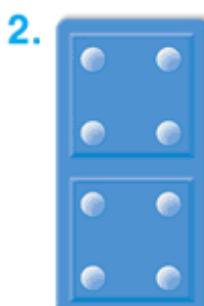
Practice

Remember to add to find how many dots in all.

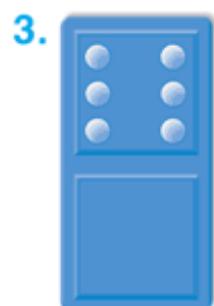
Complete the addition fact.



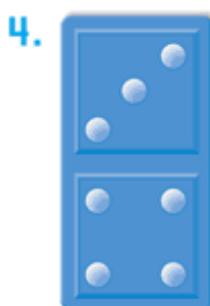
$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$



$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$



$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$



$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



Write the sum.

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

Algebra Readiness ▶ Patterns

Write the sums. Look for a pattern.

Write the addition fact you think will come next.

$$\begin{array}{r} 1 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$



At Home Show a group of 3 objects and a group of 4 objects. Ask your child to write an addition fact across and down about the groups.

Name _____

Write a Number Sentence



Objective

Write addition sentences to solve story problems.

How many children in all?

UNDERSTAND

What do you know?

- There are **2** children in a group.
- **3** more children join them.

PLAN

Circle how you would solve the problem.

add

subtract

SOLVE

Write an addition sentence.

$$\underline{2} + \underline{3} = \underline{5}$$

How many children in all?

5 children

LOOK BACK

Does the addition sentence show the two groups?

Does the sum show how many in all?

Guided Practice

Write an addition sentence to solve.

Write the answer.

Remember:
► Understand
► Plan
► Solve
► Look Back



1. There are 6 red flags. There are 2 blue flags. How many flags are there?

Think

6 in one group.
2 in the other.

_____ _____ _____
_____ flags

2. There are 4 children. Then 3 more children come. How many children are there now?

Think

4 children and
3 more children.

_____ _____ _____
_____ children

Practice

3. There are 5 cats. Then 1 cat joins them. How many cats are there now?

_____ _____ _____
_____ cats

4. There are 3 blue drums. There are 5 green drums. How many drums in all?

_____ _____ _____
_____ drums

Name _____

Strategies

Write a Number Sentence

Draw a Picture

Act It Out With Models

Mixed Problem Solving

Solve.

1. There are 2 girls with clarinets. There are 5 boys with clarinets. How many children have clarinets?

Draw or write to explain.



_____ children

2. There are 5 oboes on the top shelf. There is 1 oboe on the bottom shelf. How many oboes are there?



_____ oboes

3. There are 6 flute players. 2 more flute players join them. Now how many flute players are there?



_____ flute players

4. There are 4 trumpet players. 1 more trumpet player joins them. How many trumpet players are there now?



_____ trumpet players



At Home Read problems 1 through 4 using different numbers or objects and have your child tell how to solve the problems.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. Arlo sees **2** dogs in the park.

How many dog legs does he see?

Show your work using pictures, numbers, or words.

_____ legs

2. Sasha has **3** books. She gets **2** more books. How many books does Sasha have now?

_____ books

Multiple Choice

Listen to your teacher read the problem.

Choose the correct answer.

3. **4** **5** **7** **8**

4. **3** **5** **6** **7**



Education Place

See eduplace.com/map
for more Test-Taking Tips.

Name _____

Now Try This **Addition Patterns**

You can write a number sentence to match a picture.



$$8 + 0 = 8$$



$$\underline{7} + \underline{1} = \underline{\quad}$$

Write a number sentence to match.



$$\underline{6} + \underline{2} = 8$$



$$\underline{5} + \underline{3} = 8$$



$$\underline{4} + \underline{4} = \underline{8}$$



$$\underline{3} + \underline{5} = \underline{8}$$



$$\underline{2} + \underline{7} = \underline{9}$$



$$\underline{1} + \underline{8} = \underline{9}$$



$$\underline{9} + \underline{0} = \underline{9}$$

Talk About It What patterns do you see in the colors?

What patterns do you see in the numbers?

Problem Solving

Math Challenge Crab Legs

A crab has 5 pairs of legs. It uses 3 pairs of legs to walk. It uses 1 pair of legs to swim. The last pair of legs has large claws. How many legs does a crab have?

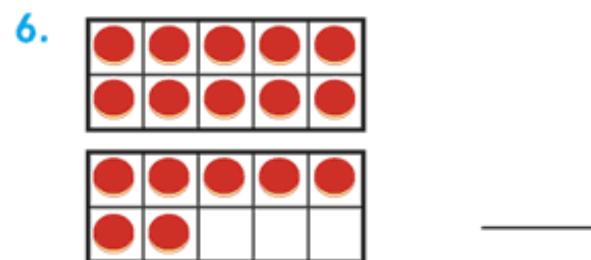
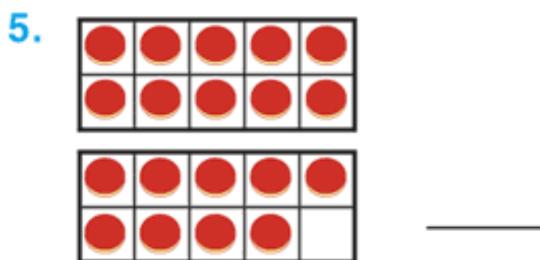
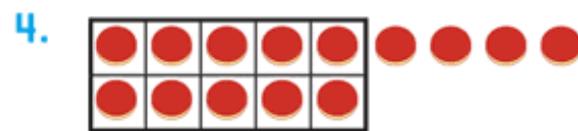
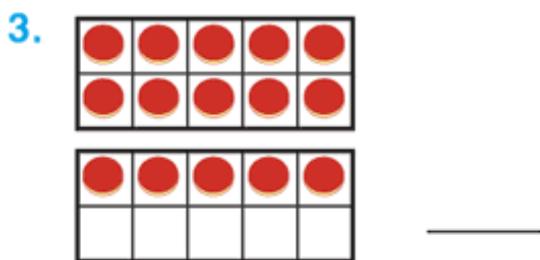
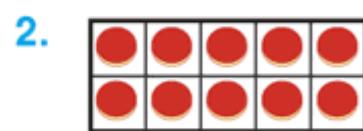
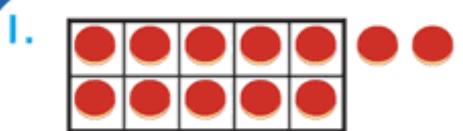
_____ legs



Key Topic Review

Number

Write the number.



Name _____



Chapter Review/Test

Vocabulary

Write a word to complete the sentence.

1. The _____ tells how many in all.
2. The _____ sign means add.

add
sum
plus

Concepts and Skills

Listen to the story.

Draw counters to show the story.

Write the numbers.

3.



_____ in all

Write how many in all.

4.

Whole	
Red	Yellow
4	1

5.

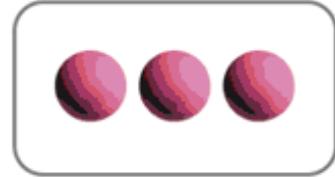
Whole	
Red	Yellow
1	2

6.



$$2 + 2 = \underline{\quad}$$

7.



$$3 + 1 = \underline{\quad}$$



Chapter Review/Test

Write the sum.

8. $2 + 0 = \underline{\quad}$

9. $0 + 0 = \underline{\quad}$

10. $0 + 5 = \underline{\quad}$

Add. Then change the order of the addends and add.

11. $4 + 1 = \underline{\quad}$

12. $2 + 4 = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

Use cubes.

Find a way to make 8.

13. $\underline{\quad} + \underline{\quad} = \underline{\quad}$

14. $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Write the sum.

15.
$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 0 \\ + 8 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

Problem Solving

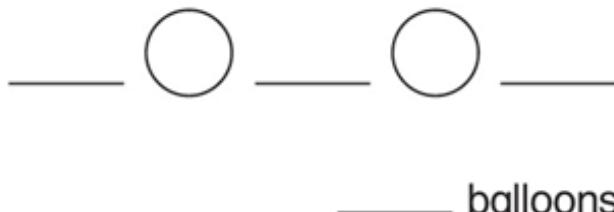
Write an addition sentence to solve.

Write the answer.

20. There are 3 red balloons.

There are 4 yellow balloons.

How many balloons in all?



Subtraction Concepts

INVESTIGATION

Use the picture to tell subtraction stories.





Harvest Time

Listen to your teacher.

Name _____

Activity: Subtraction Stories



Objective

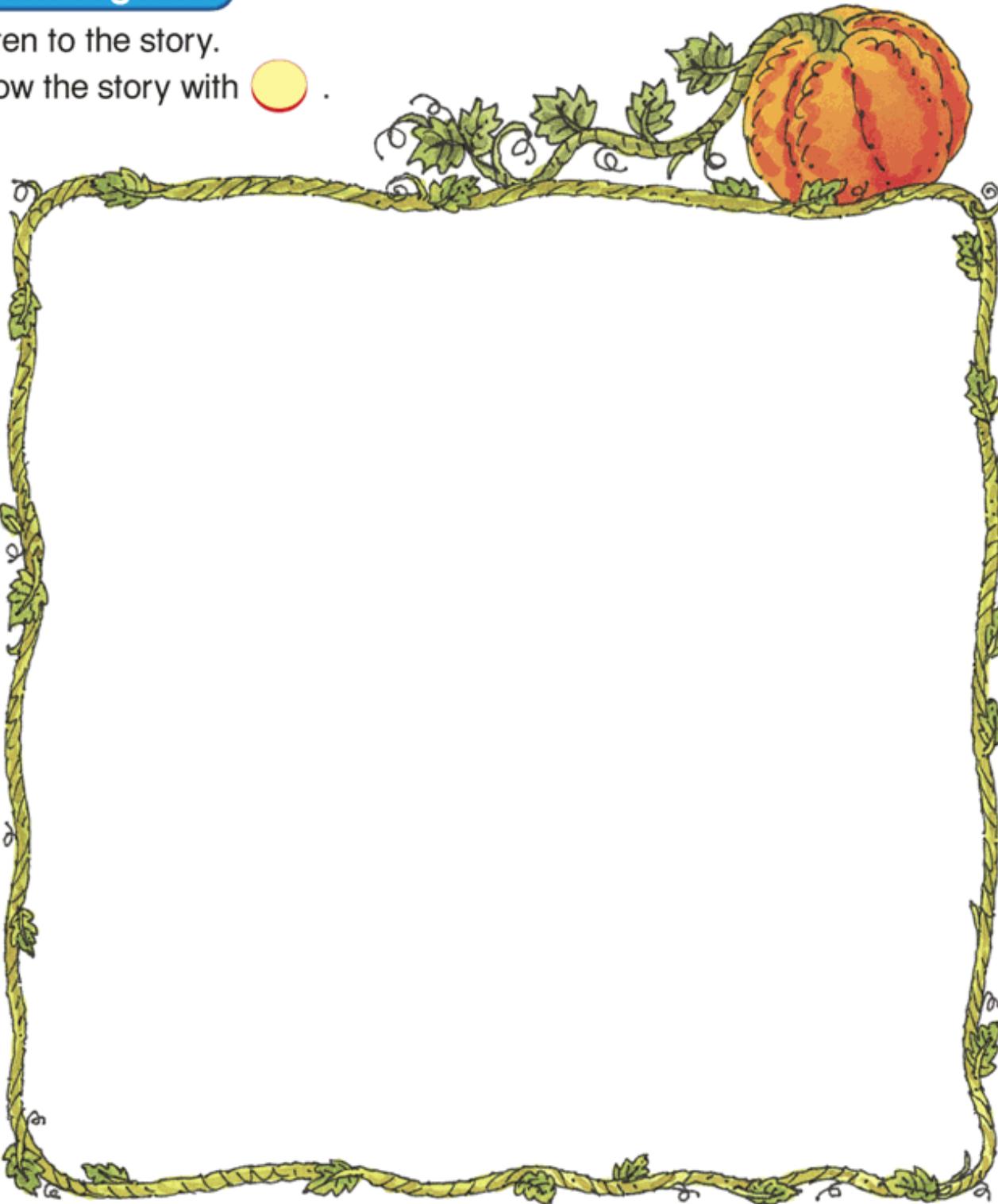
Model subtraction stories.

Work Together

Listen to the story.

Show the story with  .

1.



2. **Talk About It** Tell how showing subtraction with counters is different from showing addition.

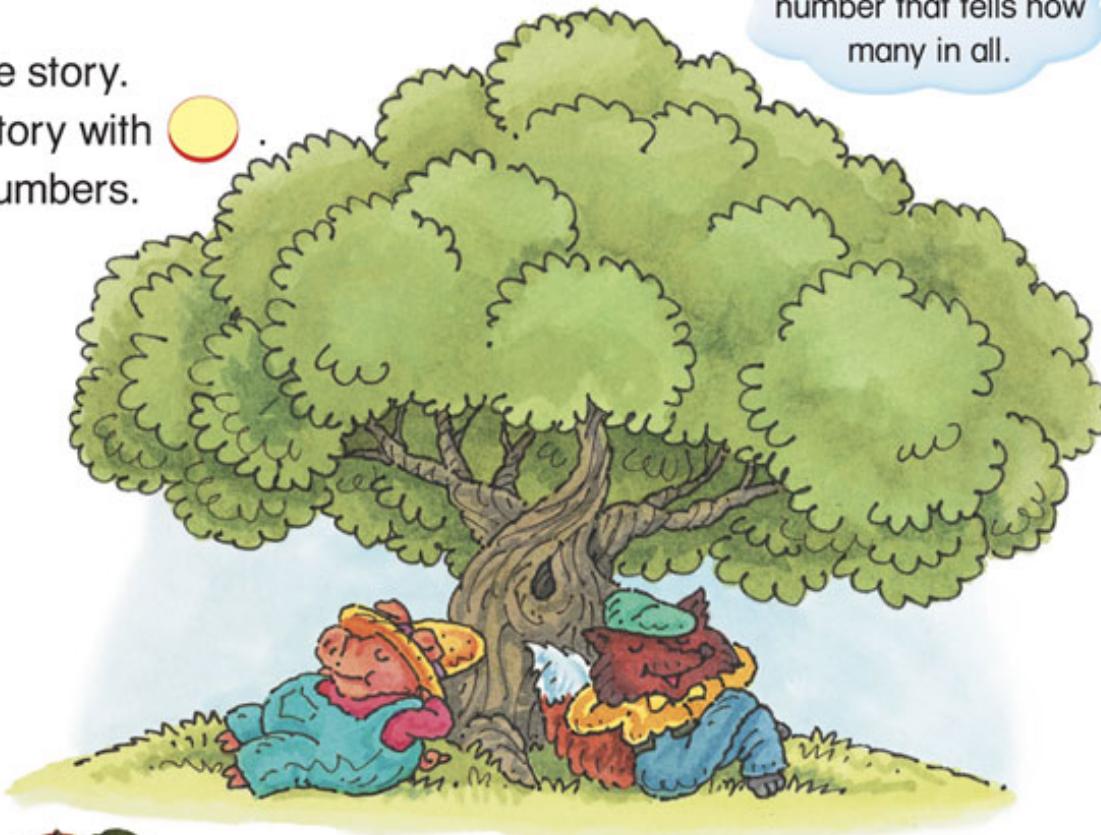
On Your Own

Listen to the story.

Show the story with 

Write the numbers.

1.



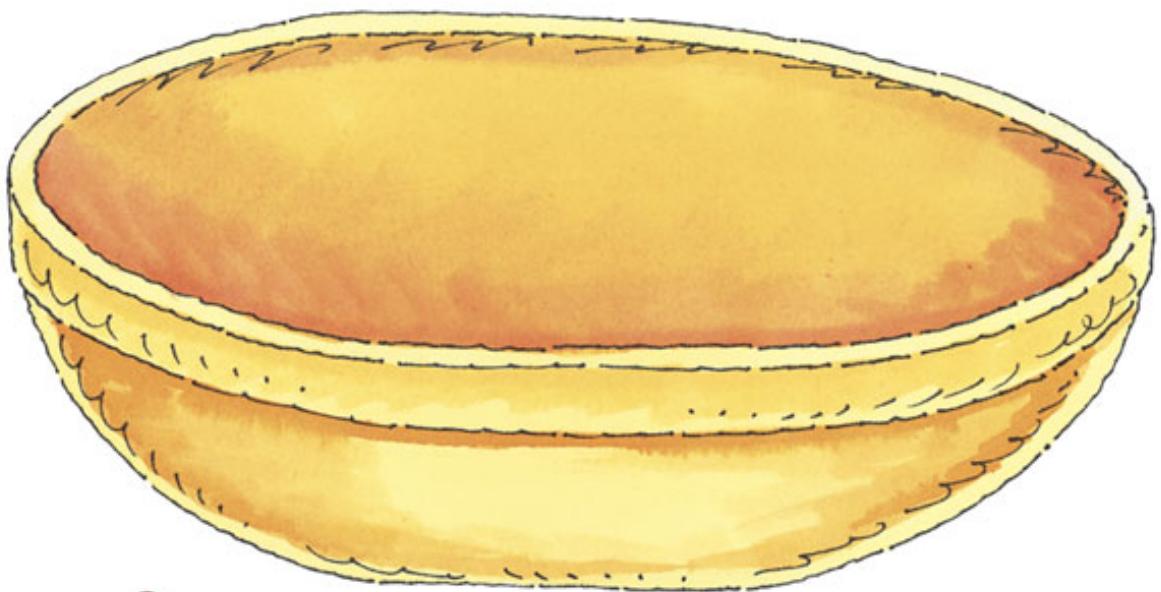
1



2 picked

2 left

2.



1



1 eaten

1 left



Name _____

Model Subtraction



Audio Tutor 1/8 Listen and Understand

If you know the **whole** and one of the **parts**, you can **subtract** to find the other part.

There are **4** counters in all.
3 counters are in one part.
How many are in the other part?

Objective

Model subtraction using parts and wholes.

Vocabulary

whole part subtract



Workmat 3	
Whole	
4	
Part	Part
3	_____

There is **1** counter in the other part.

Guided Practice

Use Workmat 3 and .

Show the whole. Move counters to one part. Find the other part.

1.

Whole	
3	
Part	Part
2	_____

Think
There are 3 counters in all. One part has 2 counters.

2.

Whole	
4	
Part	Part
2	_____

3.

Whole	
4	
Part	Part
1	_____

4.

Whole	
2	
Part	Part
1	_____

5.

Whole	
5	
Part	Part
4	_____

Explain Your Thinking If you have **5** in all and **4** is in one part, can you have more than **1** in the other part? Why?

Practice

Use Workmat 3 and .

Show the whole. Move counters to one part. Find the other part.

The parts make the whole.



1.

Whole	
Part Part	
1	

2.

Whole	
Part Part	
2	

3.

Whole	
Part Part	
3	

4.

Whole	
Part Part	
3	

5.

Whole	
Part Part	
4	

6.

Whole	
Part Part	
1	

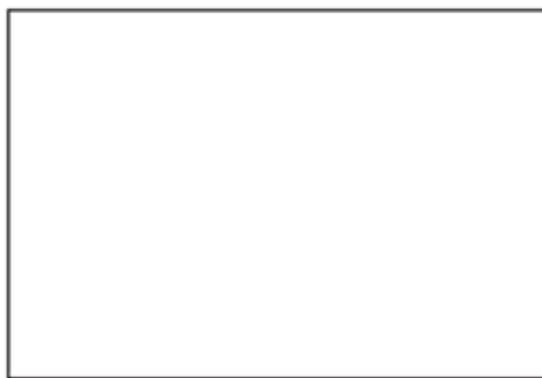
Problem Solving ▶ Number Sense

Draw a set with 1 fewer.

7.



8.



9. **Talk About It** How do you know there is 1 fewer object?



At Home Start with a set of 5 objects. Move some to the left to show one part. Have your child tell how many are in the other part.

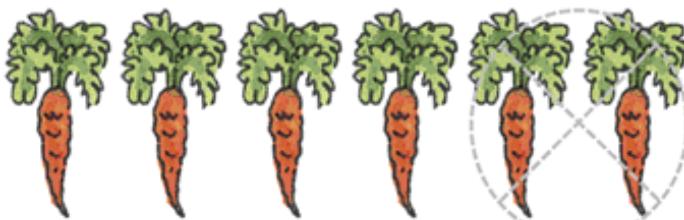
Name _____

Use Symbols to Subtract



Audio Tutor 1/9 Listen and Understand

Use the **minus sign** and **equal sign** to write about subtraction.



$$6 - 2 = \underline{\quad}$$

minus sign equal sign

You can circle and cross out to show subtraction.



Guided Practice

Circle and cross out to subtract.

Write how many are left.

1.



$$5 - 3 = \underline{\quad}$$

Think
Circle 3 and cross them out.

2.



$$4 - 1 = \underline{\quad}$$

3.



$$6 - 5 = \underline{\quad}$$

4.



$$6 - 3 = \underline{\quad}$$

5.



$$5 - 2 = \underline{\quad}$$

Explain Your Thinking In Exercise 5, why do you circle two objects before you subtract?

Objective

Solve subtraction sentences using – and =.

Vocabulary

minus sign
equal sign

Practice

Circle and cross out to subtract.

Write how many are left.

The objects that are not crossed out are the number left.

1.



$$6 - 1 = \underline{5}$$

2.



$$5 - 2 = \underline{\quad}$$

3.



$$4 - 3 = \underline{\quad}$$

4.



$$3 - 1 = \underline{\quad}$$

5.



$$6 - 3 = \underline{\quad}$$

6.



$$4 - 2 = \underline{\quad}$$

7.



$$3 - 2 = \underline{\quad}$$

8.

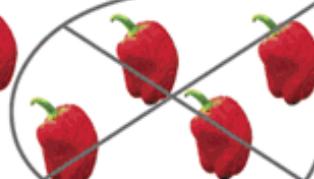
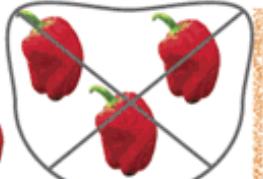


$$6 - 4 = \underline{\quad}$$

Problem Solving ➤ Visual Thinking

Circle the picture that shows $5 - 4 = 1$.

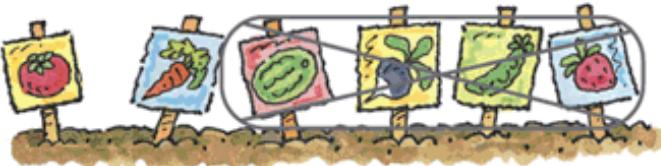
9.



Name _____

Write Subtraction Sentences

Write a **subtraction sentence** to find how many are left.



$$\underline{6} - \underline{4} = \underline{2}$$

↑
difference

The **difference** in this subtraction sentence tells how many are left.

Objective

Write subtraction sentences to show the difference.

Vocabulary

subtraction sentence
difference

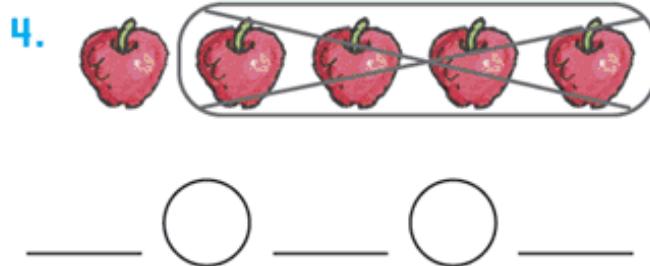
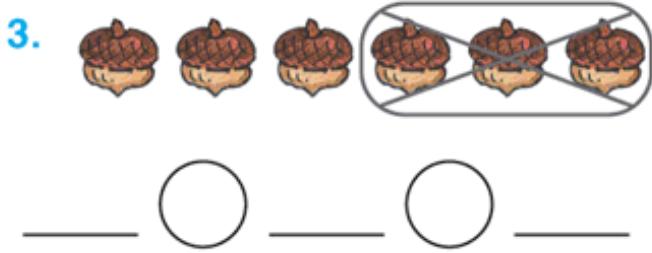
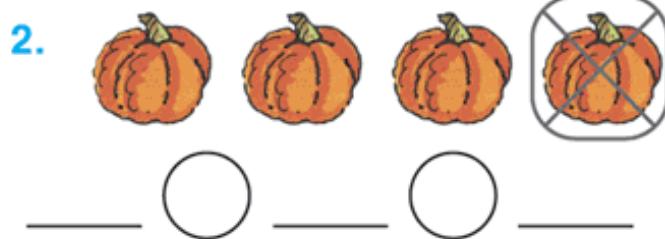
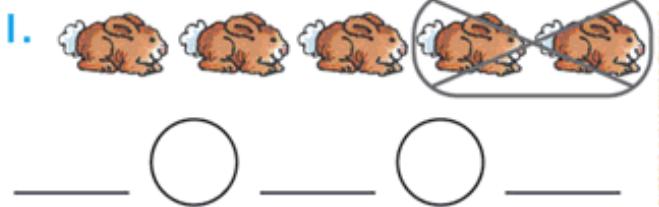
There are 6 seed packs. A rabbit takes 4 of them. 2 seed packs are left.



Guided Practice

Tell a story.

Write the subtraction sentence.



Explain Your Thinking What does the difference mean in these subtraction sentences?

Practice

Write the subtraction sentence.

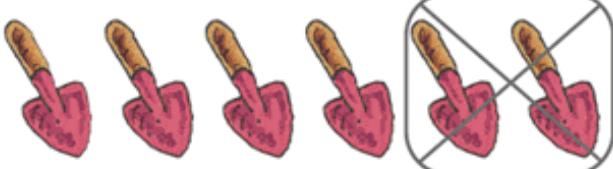
Remember to write minus and equal signs in the circles.

1.



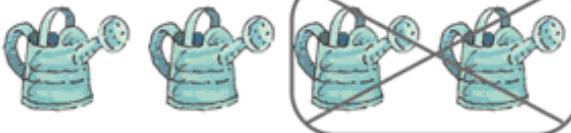
$$\underline{3} \quad \bigcirc \quad \underline{1} \quad \bigcirc \quad \underline{= \quad 2}$$

2.



$$\underline{\quad} \quad \bigcirc \quad \underline{\quad} \quad \bigcirc \quad \underline{\quad}$$

3.



$$\underline{\quad} \quad \bigcirc \quad \underline{\quad} \quad \bigcirc \quad \underline{\quad}$$

4.



$$\underline{\quad} \quad \bigcirc \quad \underline{\quad} \quad \bigcirc \quad \underline{\quad}$$

Write the difference.

5. $5 - 3 = \underline{\quad}$

6. $2 - 1 = \underline{\quad}$

7. $4 - 3 = \underline{\quad}$

8. $3 - 2 = \underline{\quad}$

9. $6 - 1 = \underline{\quad}$

10. $5 - 4 = \underline{\quad}$

11. $4 - 1 = \underline{\quad}$

12. $6 - 5 = \underline{\quad}$

13. $5 - 2 = \underline{\quad}$

Problem Solving ➤ Logical Thinking

14. I am greater than 4.
I am less than 7.
I am not 5.
What number am I?

Draw or write to explain.



At Home Use objects to act out a subtraction story. Have your child write a subtraction sentence for the story. Repeat with different stories.

Go on

Writing Math: Create and Solve



Write a subtraction story about the bees.

Complete the subtraction sentence.

1. _____

2. bees left

Write a story to match the number sentence. $4 - 1 = 3$

3. _____

Draw a picture to show your story.

4. A large rectangular box with a decorative border, intended for the student to draw a picture related to the subtraction story they wrote.

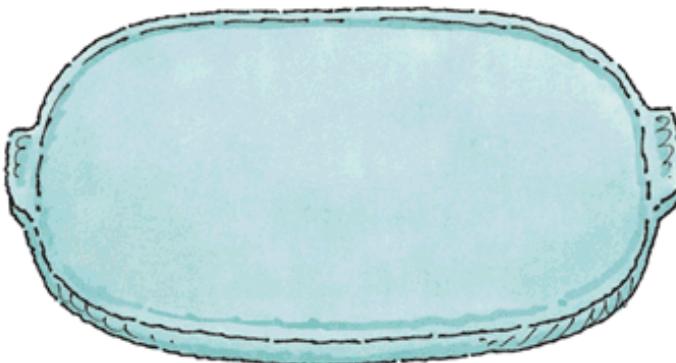


Quick Check

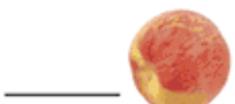
Listen to the story.

Draw counters to show the story.

Write the numbers.



1.



_____ eaten

_____ left

Use Workmat 3 and .

Show the whole. Move the counters to one part.

Find the other part.

2.

Whole	
5	
Part	Part
1	_____

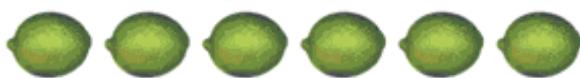
3.

Whole	
6	
Part	Part
4	_____

Circle and cross out to subtract.

Write how many are left.

4.



$6 - 3 = \underline{\quad}$

5.



$5 - 2 = \underline{\quad}$

Write the difference.

6. $4 - 3 = \underline{\quad}$

7. $3 - 2 = \underline{\quad}$

8. $5 - 3 = \underline{\quad}$

9. $6 - 1 = \underline{\quad}$

10. $2 - 1 = \underline{\quad}$

11. $4 - 2 = \underline{\quad}$

Name _____

Zero in Subtraction

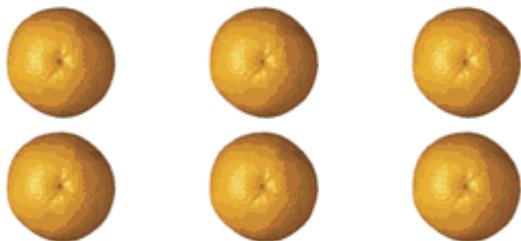
Objective

Subtract 0 or find a difference of 0.

Vocabulary

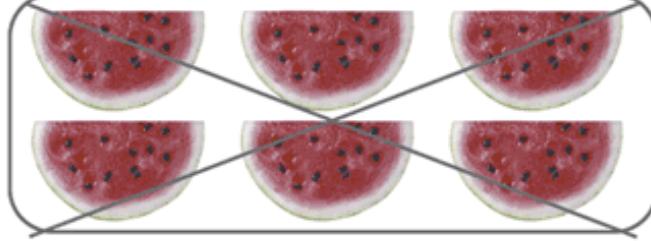
zero

When you subtract **zero** from a number, you get the number.



$$\underline{6} - \underline{0} = \underline{6}$$

When you subtract a number from itself, you get zero.



$$\underline{6} - \underline{6} = \underline{0}$$

Think

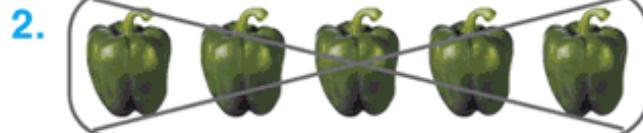
None are crossed out.

Guided Practice

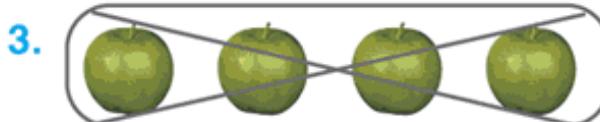
Write the difference.



$$5 - 0 = \underline{\quad}$$



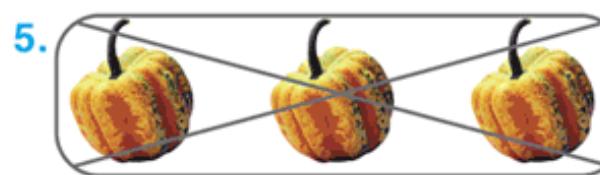
$$5 - 5 = \underline{\quad}$$



$$4 - 4 = \underline{\quad}$$



$$4 - 0 = \underline{\quad}$$



$$3 - 3 = \underline{\quad}$$



$$3 - 0 = \underline{\quad}$$

Explain Your Thinking When do you get a difference of zero?

Practice

Take away all and zero is left.
Take away zero and all is left.

Write the difference.

1.



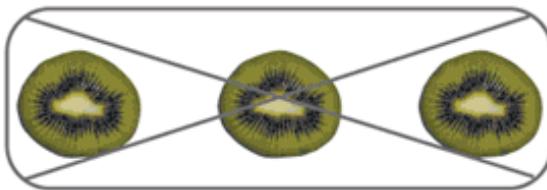
$2 - 0 = \underline{2}$

2.



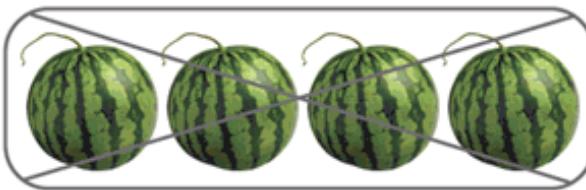
$4 - 0 = \underline{\hspace{1cm}}$

3.



$3 - 3 = \underline{\hspace{1cm}}$

4.



$4 - 4 = \underline{\hspace{1cm}}$

5. $6 - 0 = \underline{\hspace{1cm}}$

6. $1 - 1 = \underline{\hspace{1cm}}$

7. $5 - 5 = \underline{\hspace{1cm}}$

8. $2 - 0 = \underline{\hspace{1cm}}$

9. $6 - 6 = \underline{\hspace{1cm}}$

10. $3 - 0 = \underline{\hspace{1cm}}$

11. $2 - 2 = \underline{\hspace{1cm}}$

12. $5 - 0 = \underline{\hspace{1cm}}$

13. $1 - 0 = \underline{\hspace{1cm}}$

Reading Math Vocabulary

Write the subtraction sentence.

14. Six minus four equals two.

$\underline{\hspace{1cm}} \text{ } \underline{\hspace{1cm}} \text{ } \text{ } \text{ } \underline{\hspace{1cm}} \text{ } \underline{\hspace{1cm}}$

15. Five minus five equals zero.

$\underline{\hspace{1cm}} \text{ } \underline{\hspace{1cm}} \text{ } \text{ } \text{ } \underline{\hspace{1cm}} \text{ } \underline{\hspace{1cm}}$



Name _____

Subtract From 8 or Less



Objective

Subtract from 8 or less and write subtraction sentences.

Use 7 cubes.

Circle and cross out 2.

Write the subtraction sentence.



$$\underline{7} \ \bigcirc \ \underline{2} \ \bigcirc \ \underline{5}$$

Use 8 cubes.

Circle and cross out 1.

Write the subtraction sentence.



$$\underline{8} \ \bigcirc \ \underline{1} \ \bigcirc \ \underline{7}$$

Guided Practice

Use cubes. Snap off some.

Circle and cross out.

Write the subtraction sentence.

Use 7 cubes.



$$\underline{7} \ \bigcirc \ \underline{1} \ \bigcirc \ \underline{6}$$



$$\underline{\quad} \ \bigcirc \ \underline{\quad} \ \bigcirc \ \underline{\quad}$$

Use 8 cubes.



$$\underline{\quad} \ \bigcirc \ \underline{\quad} \ \bigcirc \ \underline{\quad}$$



$$\underline{\quad} \ \bigcirc \ \underline{\quad} \ \bigcirc \ \underline{\quad}$$

Explain Your Thinking What are all the ways to subtract from 7? What about 8?

Think

I can snap off 1 cube and find the difference.

Practice

Use cubes. Snap off some.
Circle and cross out.
Write the subtraction sentence.

The number you subtract is the number of cubes you snap off.

Use 7 cubes.



7 -



-

Use 8 cubes.



-



-

Write the difference.

5. $7 - 0 =$ 6. $8 - 1 =$ 7. $7 - 6 =$

8. $8 - 6 =$ 9. $7 - 7 =$ 10. $8 - 0 =$

Algebra Readiness ► Number Sentences

Write the subtraction sentence.

11. Pat has 7 apples.
He eats 2 of them.
How many apples are left?

-

12. **Talk About It** What do the numbers in the subtraction sentence stand for?



Name _____

Subtract in Vertical Form



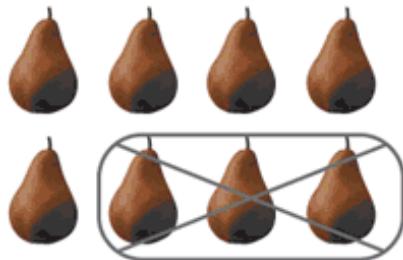
Audio Tutor 1 / 10 Listen and Understand

Objective

Subtract in vertical form.

You can write the same subtraction fact in two ways.

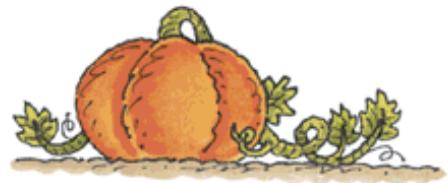
Subtract across.



$$\underline{8} - \underline{3} = \underline{5} \quad \leftarrow \text{difference}$$

Subtract down.

$$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$$



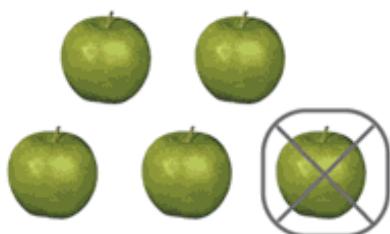
$$\quad \quad \quad \leftarrow \text{difference}$$

The difference is the same.

Guided Practice

Complete the subtraction fact.

1.



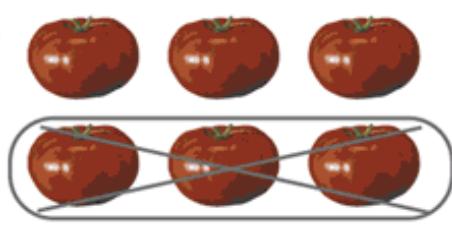
$$\begin{array}{r} \boxed{} \\ - \boxed{} \\ \hline \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Think

I write 5 in the first space. I write 1 after the minus sign.

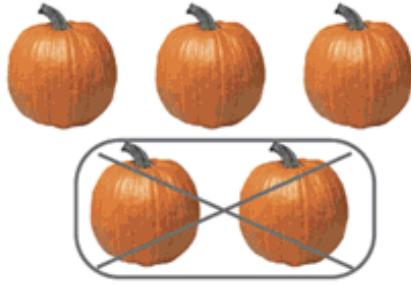
2.



$$\begin{array}{r} \boxed{} \\ - \boxed{} \\ \hline \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

3.



$$\begin{array}{r} \boxed{} \\ - \boxed{} \\ \hline \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

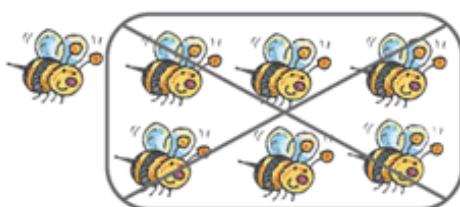
Explain Your Thinking Whether you subtract across or subtract down, the difference is the same. Why?

Practice

Remember to write the number you start with in the first space.

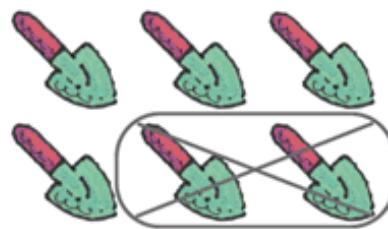
Complete the subtraction fact.

1.



7
6

2.



$$\underline{7} - \underline{6} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Write the difference.

3. $8 - 0 = \underline{\quad}$

4. $7 - 2 = \underline{\quad}$

5. $4 - 4 = \underline{\quad}$

6. $6 - 0 = \underline{\quad}$

7. $7 - 4 = \underline{\quad}$

8. $8 - 7 = \underline{\quad}$

9. $\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$

10. $\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$

11. $\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$

12. $\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$

13. $\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$

14. $\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$

Problem Solving ▶ Number Sense

Write how many. Then circle the greater number.

15.







Name _____

Act It Out With Models



There are 6 animals playing.
2 animals leave the game.
How many animals are still playing?

Objective

Use models to act out subtraction problems.

UNDERSTAND

What do you know?

- 6 animals are playing.
- 2 animals leave.

PLAN

Act it out.

Circle the model you would use to act out the problem.

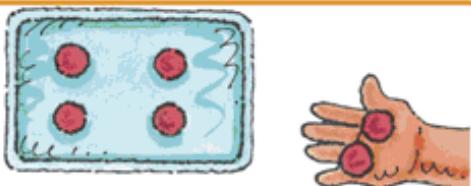
counters

cubes

SOLVE

Solve.

Show 6.



Take away 2.

There are _____ animals left.

LOOK BACK

How can you check your answer?

Guided Practice

Act out the problem with counters.
Write the answer.

Remember to
use the 4 steps.

Remember:
► Understand
► Plan
► Solve
► Look Back

1. Kayla has 4 jars of jam. She gives 1 away. How many jars of jam does she have left?

Draw or write to explain.

Think

I start by showing
4 counters.

_____ jars of jam

2. Mike has 8 rabbits. 3 are brown. The other rabbits are white. How many rabbits are white?

Think

I know how many in all.
I know one part.

_____ white rabbits

Practice

3. There are 7 birds in the yard. 2 fly away. How many birds are left?



_____ birds

4. Tom has 5 apples. 2 apples are red. The rest are green. How many green apples does Tom have?

_____ green apples

Mixed Problem Solving

Solve.

1. Beth has 3 ears of corn.
Ted has 3 ears of corn.
How many ears of corn
do they have in all?

Draw or write to explain.



_____ ears of corn

2. The farmer has 5
pumpkins. She gives 1
away. How many
pumpkins does she
have left?



_____ pumpkins

3. Damon plants 4 pumpkins.
He plants 1 more
watermelon than pumpkin.
How many watermelons
does Damon plant?



_____ watermelons

4. 3 rabbits are eating
carrots. 2 more join them
to eat. How many rabbits
are eating carrots now?



_____ rabbits



At Home Make up subtraction problems similar
to those in the lesson. Ask your child to solve them.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. Lucy has 6 peppers. She puts 2 in a salad. How many peppers does she have left?

Show your work using pictures, numbers, or words.

_____ peppers

2. There are 7 apples on a tree in the yard. 4 of the apples fall off. How many apples are still on the tree?

_____ apples

Multiple Choice

Listen to your teacher read the problem.

Choose the correct answer.

3. 2 3 4 8



4. 2 3 4 6



Education Place

See eduplace.com/map
for more Test-Taking Tips.

Now Try This**Subtract Both Ways**

Use Workmat 3 and .

Write a number sentence using 6 as the whole.

1. $6 - \boxed{\quad} = \boxed{\quad}$

3. $\boxed{\quad} - \boxed{\quad} = \boxed{\quad}$

2. $6 - \boxed{\quad} = \boxed{\quad}$

4. $\boxed{\quad} - \boxed{\quad} = \boxed{\quad}$

Write the above facts vertically.

5. 6
- $\boxed{\quad}$

 $\boxed{\quad}$

6. 6
- $\boxed{\quad}$

 $\boxed{\quad}$

7. $\boxed{\quad}$
- $\boxed{\quad}$

 $\boxed{\quad}$

8. $\boxed{\quad}$
- $\boxed{\quad}$

 $\boxed{\quad}$

Use Workmat 3 and .

Write a number sentence using 8 as the whole.

9. $8 - \boxed{\quad} = \boxed{\quad}$

11. $\boxed{\quad} - \boxed{\quad} = \boxed{\quad}$

10. $8 - \boxed{\quad} = \boxed{\quad}$

12. $\boxed{\quad} - \boxed{\quad} = \boxed{\quad}$

Write the above facts vertically.

13. 8
- $\boxed{\quad}$

 $\boxed{\quad}$

14. 8
- $\boxed{\quad}$

 $\boxed{\quad}$

15. $\boxed{\quad}$
- $\boxed{\quad}$

 $\boxed{\quad}$

16. $\boxed{\quad}$
- $\boxed{\quad}$

 $\boxed{\quad}$

Talk About It What happens when you subtract 0 from 6? What happens when you subtract 8 from 8?

Music Connection

Musical Instruments

Some musical instruments are played with strings.



Which instrument has the fewest strings? _____

How many fewer strings does it have than the banjo? _____ strings

WEEKLY READER eduplace.com/map

Key Topic Review

Comparing Numbers

Match. Circle the set with more.

1.

6 squirrels

4 squirrels

Match. Circle the set with fewer.

2.

7 bees

5 bees

Circle the greater number.

3. 15 17

4. 9 8

5. 16 19

Name _____



Chapter Review/Test

Vocabulary

Write a word to complete the sentence.

1. When you take away, you _____.

subtract
minus
difference

2. The _____ tells how many are left.

Concepts and Skills

Listen to the story.

Draw counters to show the story.

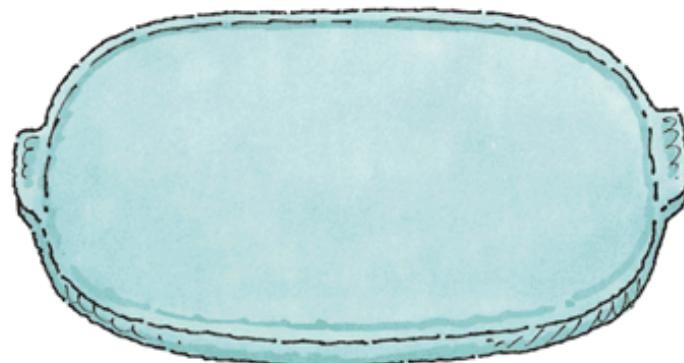
Write the numbers.

3.



_____ eaten

_____ left



Find the other part.

4.

Whole	
4	
Part	Part
1	_____

5.

Whole	
5	
Part	Part
4	_____

Circle and cross out to subtract.

Write how many are left.

6.



$6 - 2 = \underline{\quad}$

7.



$5 - 3 = \underline{\quad}$



Chapter Review/Test

Write the difference.

8. $5 - 2 = \underline{\quad}$

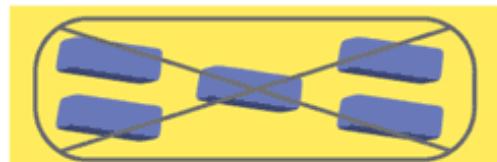
9. $6 - 5 = \underline{\quad}$

10. $4 - 1 = \underline{\quad}$

11.



12.



$4 - 0 = \underline{\quad}$

$5 - 5 = \underline{\quad}$

13. $8 - 3 = \underline{\quad}$

14. $7 - 1 = \underline{\quad}$

15. $8 - 2 = \underline{\quad}$

16. $7 - 5 = \underline{\quad}$

17. $8 - 4 = \underline{\quad}$

18. $7 - 3 = \underline{\quad}$

19. $\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$

20. $\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$

21. $\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$

22. $\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$

23. $\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$

24. $\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$

Problem Solving

Act out the problem with counters.

Write the answer.

25. There are 8 apples on a tree.
Mai picks 1 apple and eats it.
How many apples are left?

Draw or write to explain.

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_____ apples

Data and Graphing

CHAPTER
4

INVESTIGATION

Pick three activities from the picture. Make a tally chart to show how many children are doing each activity.





People Using Math

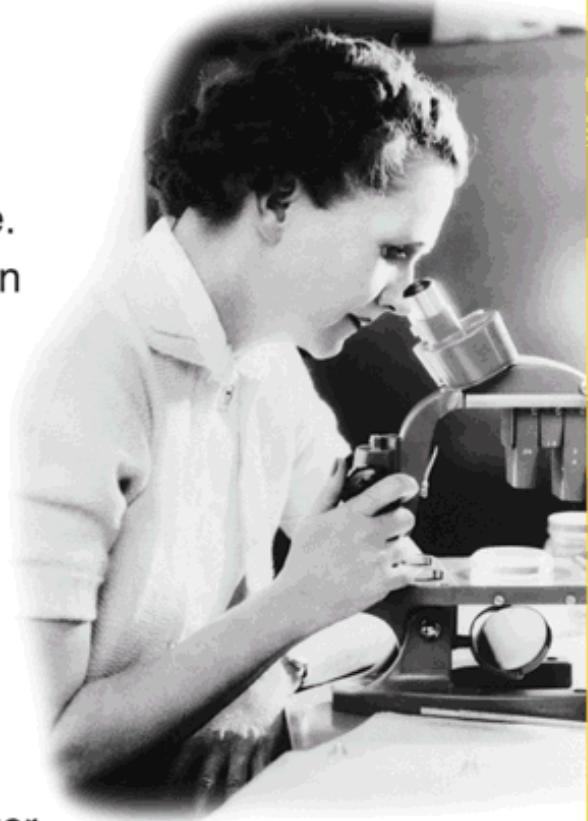
Rachel Carson

Rachel Carson loved nature and science. She also liked to write. When she was ten years old, she had a story published.

Rachel became a marine biologist, someone who studies plants and animals in the sea. She wrote many books about caring for our planet.



Use tally marks to show how many people are in each family. Rachel lived with her mother, father, brother, and sister.



1.

Family Members

Rachel's family	
My family	

Use the tally chart to make a pictograph.

2.

Family Members

Rachel's family	
My family	



3. Does one family have more people? _____

4. **Write About It** What can you and your family do to help care for our planet? _____

Name _____

Activity: Make a Tally Chart

Make 1 **tally** for each dot.

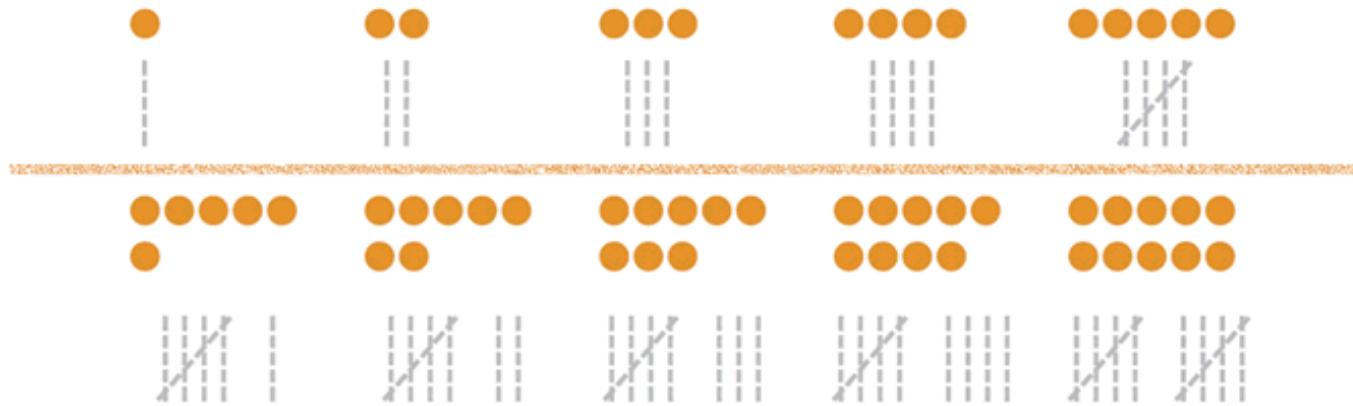


Objective

Represent data with tally marks.

Vocabulary

tally



Work Together

Ask 10 friends which of these activities they like best.

Make 1 tally for each answer. Complete the tally chart.

1.

Activities

Think

Draw a line across for the fifth tally.

Use the tally chart.

Write how many children choose each activity.

2.



3.



4.



5. **Talk About It** How can you show 14 with tally marks?

Name _____

Read a Pictograph



Audio Tutor 1/11 Listen and Understand

A **pictograph** uses pictures to show information. Each stands for 1 child.

Objective

Read and use a pictograph to compare information.

Vocabulary

pictograph

Children Playing



_____ children are playing on the .

Guided Practice

Children Playing



Use the pictograph to solve.

Each stands for 1 child.

1. How many children played on the ?

_____ children

Think

Count the in the row.

2. Which item do more children choose? Circle.



3. Which item do the fewest children choose? Circle.



Explain Your Thinking How can you use the graph to tell if fewer children are on or ?

Practice



Use the pictograph to solve.
Each  stands for 1 child.

Count the 
to find the answer.

1. How many children drink ?

5 children

2. How many children drink  and ?

 children

3. Which do most children drink? Circle.



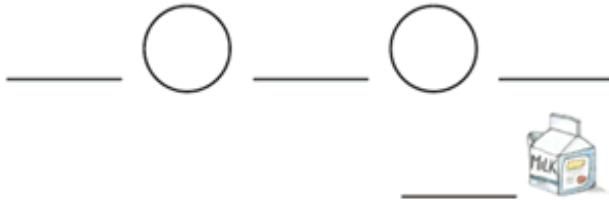
4. Which two drinks do the same number of children choose? Circle.



Algebra Readiness ► Number Sentences

Write a number sentence to find the answer.

5. Mr. Lo has 8 . The children drink 3 . How many  are left?



Name _____

Make a Pictograph



Audio Tutor 1/12 Listen and Understand

You can make a pictograph.

Cross out one .

Draw one .

Toys			
	<input type="circle"/>	<input type="circle"/>	<input type="circle"/>



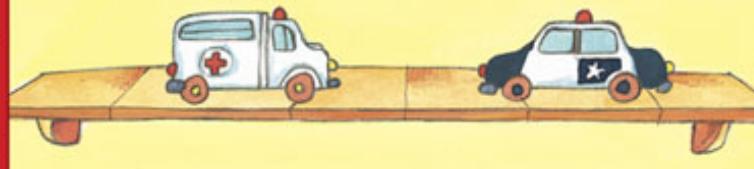
Guided Practice

Use the picture.

Make a pictograph.

Think

I can draw 1 for each police car.



1.

Toys	
	<input type="circle"/>
	
	

Explain Your Thinking Which toy is shown the most?

Tell how you know.

Objective

Make and use a pictograph to compare information.

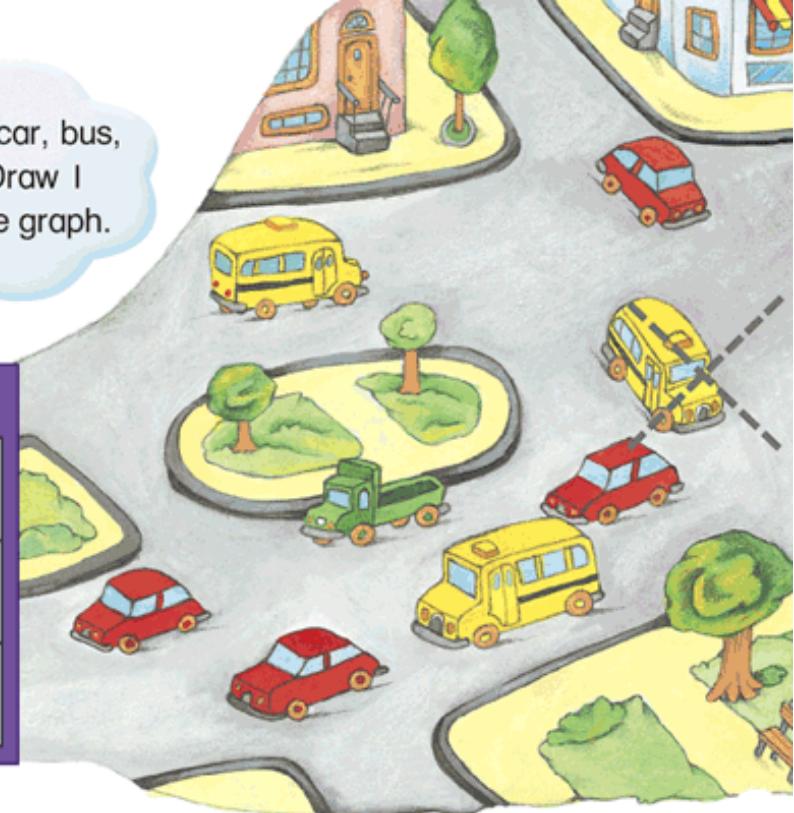
Practice

Use the picture.
Make a pictograph.

Cross out 1 car, bus, or truck. Draw 1 wheel on the graph.

Driving on the Street



Use the pictograph to solve.

1. How many more  than  are there?

_____ more

2. How many  and  are there?

Problem Solving ➔ Logical Thinking

Make a pictograph.

Draw a  to stand for each helmet.

3. There are 3  .
There is 1 more  than  .
There are 2 fewer  than  .



4. **Talk About It** Which color has the most?
How do you know?



Writing Math: Create and Solve

You are taking a survey about the shoes your classmates are wearing. Write a question for your survey.

1. _____

Now, take the survey.
Make a pictograph.

2. _____

_____	_____
_____	_____
_____	_____
_____	_____

Write one thing you learned from the pictograph.

3. _____



Quick Check

Use the picture.

Complete the tally chart.

1.

Crayons



Use the tally chart.

Complete the pictograph.

2.

Crayons



3. How many more than are there? _____ more

4. How many fewer than are there? _____ fewer

5. How many and are there? _____ in all

Name _____

Read a Bar Graph



Audio Tutor 1 / 13 Listen and Understand

This is a **bar graph**. It tells how many children choose each snack.

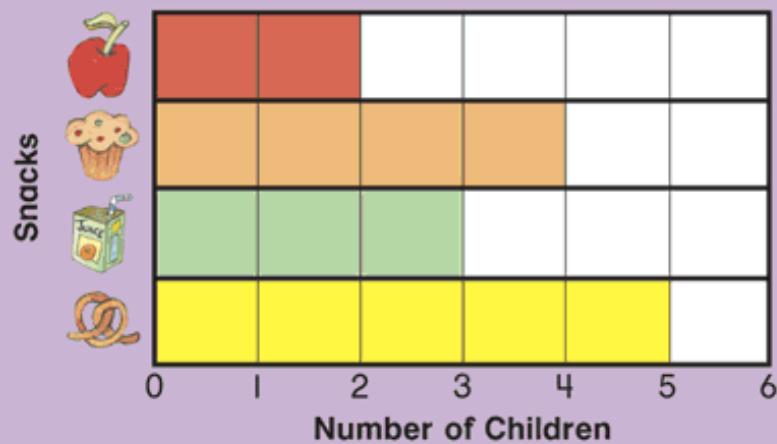
Objective

Read a bar graph and use it to compare information.

Vocabulary

bar graph

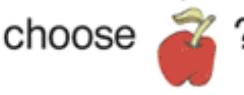
Snacks We Eat in School



Guided Practice

Use the bar graph to solve.

1. How many children choose ?



_____ children

Think
I look where the bar ends in the apple row.

2. How many children choose ?



_____ children

3. Circle the snack more children choose.



4. Circle the snack fewer children choose.

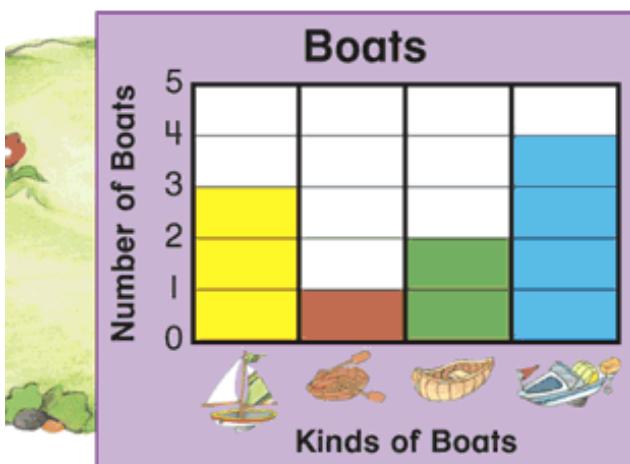


Explain Your Thinking If you choose a snack, how will the bar graph change?

Practice

The bar graph shows the boats Nara saw.

Look at the number where the bar ends to know how many.



Use the bar graph to solve.

1. There are 4 of which kind of boat? Circle.



2. Are there fewer  or ? Circle.



3. How many  and  are there?

4. How many more  than  are there?

_____ more

Reading Math Vocabulary

Show the tally marks for each number.

5. _____

eleven

6. _____

thirteen

7. _____

eight

Write a number. Make tally marks to show it.

8. _____



Name _____

Activity: Make a Bar Graph



Work Together

Make a **tally chart**.

Ask 8 classmates their favorite color bike.

Make 1 tally for each answer.

Objective

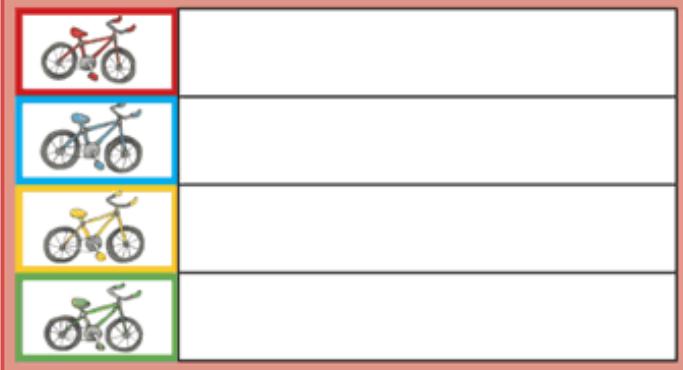
Use a tally chart to make a bar graph and compare information.

Vocabulary

tally chart

1.

Favorite Bike Color



Use the tally chart to make a bar graph.
Color 1 box for each tally.

Think

How many choose red?
I color that number of boxes.

2.

Favorite Bike Color

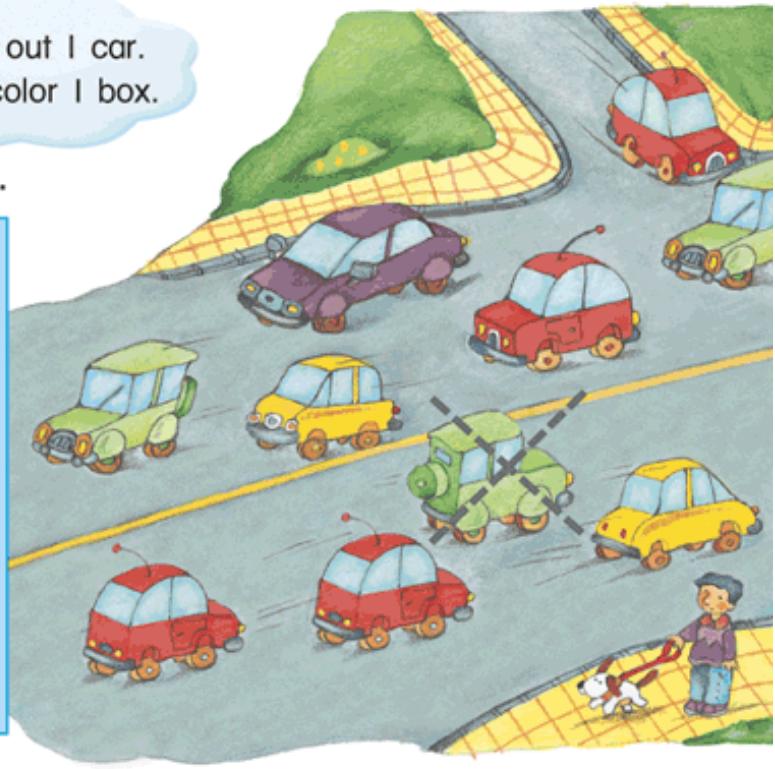
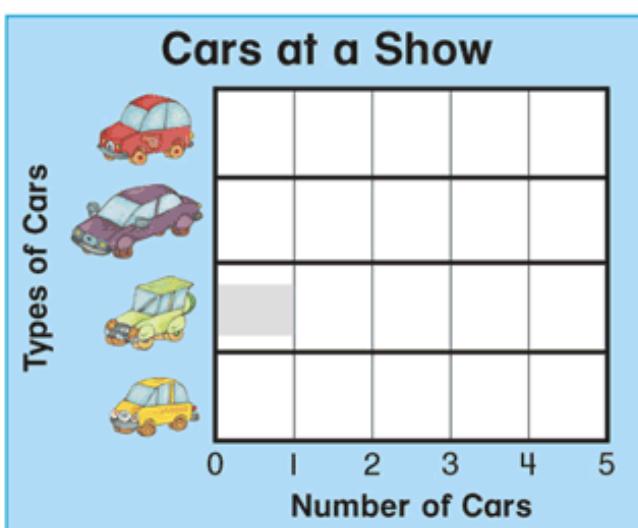


3. **Write About It** Make up a question about the bar graph.

On Your Own

I cross out 1 car.
Then I color 1 box.

Use the picture. Make a bar graph.



Use the bar graph to solve.

1. How many kinds of cars are there?

 kinds

2. How many  are there?

3. Circle the one that has 1 more than .



4. How many more  than  are there?

_____ more

5. Are there fewer  or ? Circle.



6. How many  and  are there?

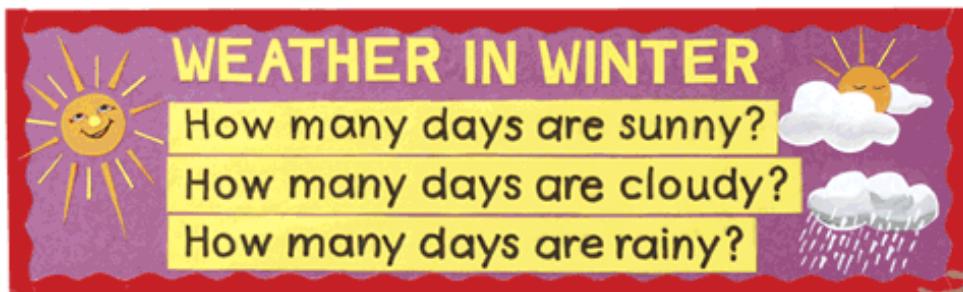
7. Circle which has the greatest number of cars.



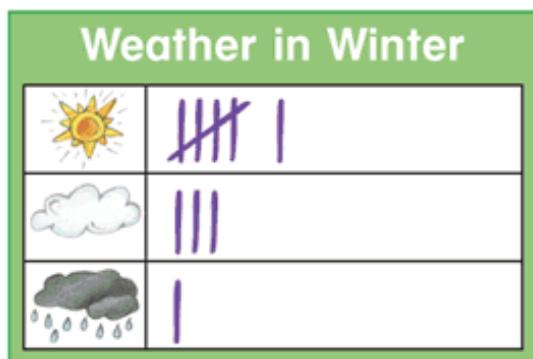
8. Circle which has the least number of cars.



Problem Solving Reasoning



Ms. Bend's class is learning about weather. They made a chart to record the weather for 10 days.

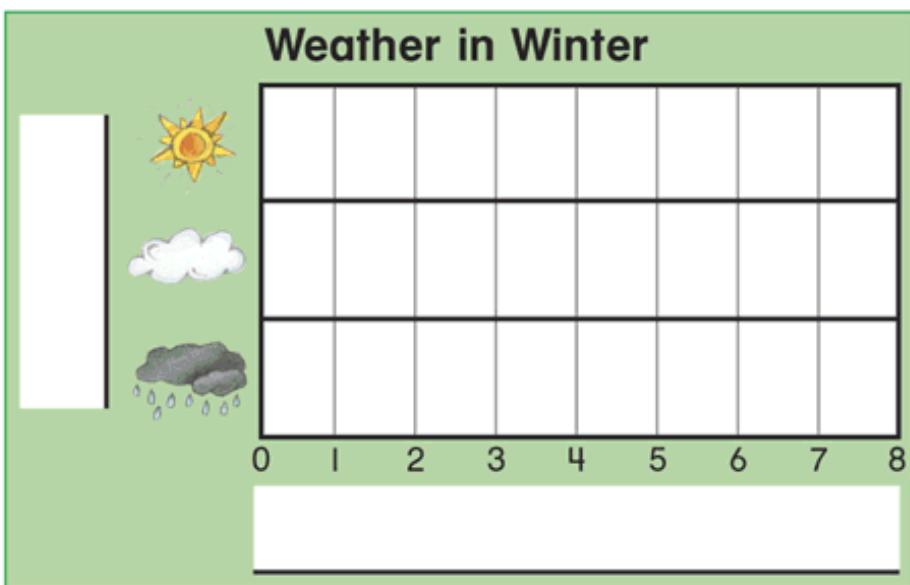


Use the tally chart to make a bar graph.

Label the graph.

Color the bars on the graph to show the weather.

1



2. **Talk About It** What is the weather on most days? What else does the graph tell you?



At Home Ask your child to make a bar graph to show the number of windows in three rooms. Discuss the finished graph.

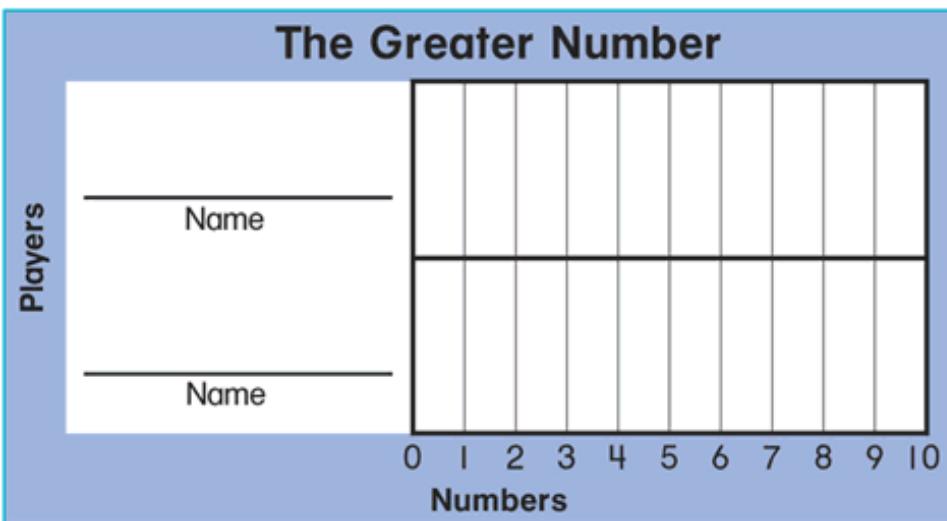
Numbers Are Great!

2 Players

What You Need: Number cards 1–20, blue crayon, red crayon

How to Play

1. Place the cards facedown in a pile.
2. Each player turns over a card.
3. The player with the greater number colors 1 box on the graph.
4. Play until all cards are used.
5. The player with the longer bar wins.



Other Ways to Play

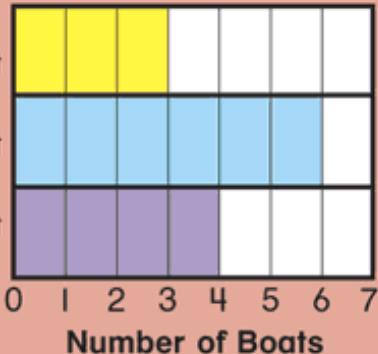
- A. Place the cards facedown. Play again. This time the player with the lesser number colors 1 box on the graph.
- B. Use a 0–5 spinner. Each player spins twice and adds the two numbers. The greater sum colors 1 box on the graph.

Name _____

Use a Graph

Audio Tutor 1 / 14 Listen and Understand

This graph shows how many boats are at one dock.

**Boats at the Dock****Types of Boats**

Use the graph, then add to solve the problem.

How many sailboats and rowboats in all?

Think

I can find the numbers on the graph. Then I add to find the sum.

$$\begin{array}{r}
 3 \text{ sailboats} \\
 + 4 \text{ rowboats} \\
 \hline
 7 \text{ in all}
 \end{array}$$

Use the graph, then subtract to solve the problem.

How many more motorboats are there than rowboats?

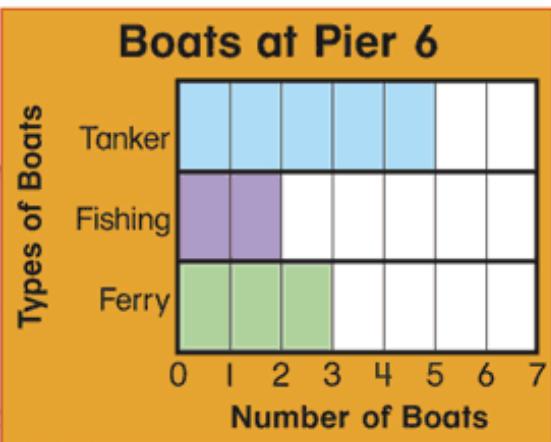
Think

I can find the numbers on the graph. Then I subtract to find the difference.

$$\begin{array}{r}
 \text{motorboats} \\
 - \text{rowboats} \\
 \hline
 \text{more motorboats}
 \end{array}$$

Guided Practice

Use the bar graph to solve.



1. How many fishing boats and ferry boats are there?

Think

I need to look at the bars next to Fishing and Ferry.

Draw or write to explain.

_____ boats

2. How many more tankers are there than ferry boats?

Think

I need to find how many more, so I subtract.

_____ more tankers

Practice

3. How many tankers and fishing boats are there?



_____ boats

4. How many more ferry boats are there than fishing boats?

_____ more ferry boat

Name _____

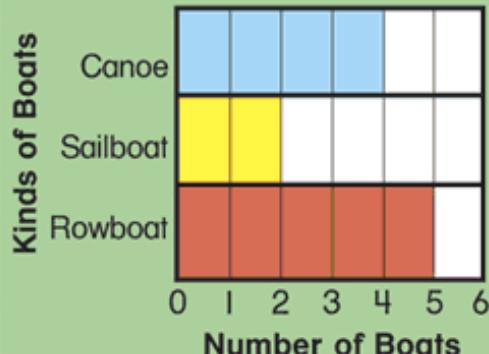
Strategies

Act It Out With Models
Write a Number Sentence
Draw a Picture

Mixed Problem Solving

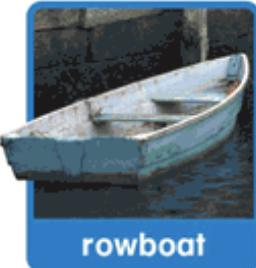
Solve.

Boats Without Motors



1. Use the bar graph. How many more rowboats are there than sailboats?

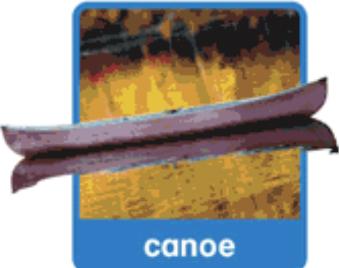
Draw or write to explain.



rowboat

_____ more rowboats

2. There are 4 canoes. One is red. The others are silver. How many are silver?



canoe

_____ silver

3. There are 5 people on a raft. 3 more people get on the raft. How many people are on the raft now?



raft

_____ people



At Home Ask questions that your child can answer by using the graph.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. Frank's survey shows that 4 children like red. 3 children like blue. 1 child likes yellow. Show what his pictograph looks like.

Favorite Colors	
red	
blue	
yellow	

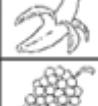
2. Look at the pictograph. How many children answered the survey?

_____ children

Multiple Choice

Listen to your teacher read the problem. Choose the correct answer.

3.    

Favorite Fruits	
	
	
	
	

4.    



Name _____

Now Try This **Graphing Number Names**

Circle the names for 7.

Draw a box around the names for 8.

1. $2 + 6$

2. $5 + 2$

3. $4 + 4$

4. $3 + 4$

5. $7 + 1$

6. $1 + 6$

7. $0 + 7$

8. $2 + 5$

9. $0 + 8$

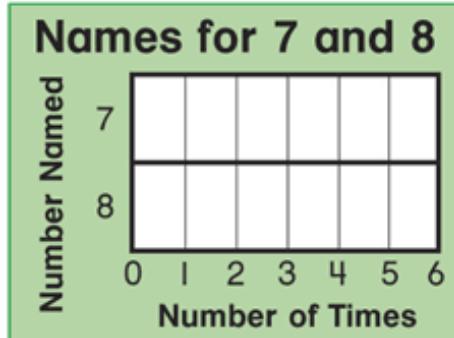
Make 1 tally for each number that is named above.

10.

Names for 7 and 8	
7	
8	1

Use the tally chart to make a bar graph. Color 1 box for each tally.

11.



Find two more ways to make 8.

12. _____ + _____

13. _____ + _____

Problem Solving

Social Studies Connection America Recycles

Recycling helps take care of the trash problem. It also helps our Earth in other ways.

Use the pictograph to solve.

1. How many people recycle



_____ people

People Recycling

2. Which item do people recycle the most? Circle.



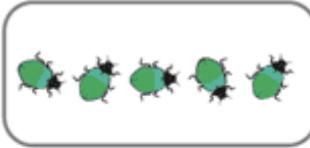
WEEKLY READER eduplace.com/map

Key Topic Review

Sums Through 8

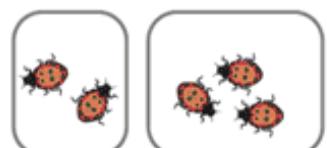
Write the sum.

1.



$$5 + 1 = \underline{\quad}$$

2.



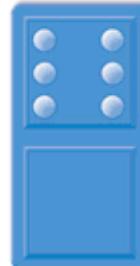
$$2 + 3 = \underline{\quad}$$

3.



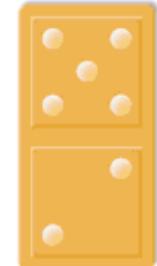
$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

4.



$$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$$

5.



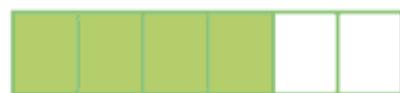
$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$



Vocabulary

Draw a line to match.

1. A **pictograph** uses
2. A **bar graph** uses
3. A **tally chart** uses



Concepts and Skills

4. Use the picture. Complete the tally chart.

Our Pets	
Dogs	
Cats	
Birds	



Use the tally chart to solve.

5. How many dogs are there?

6. Which has the most? Circle.

dogs birds cats

7. Use the tally chart. Make the pictograph.

Our Pets	
Dogs	
Cats	
Birds	

Use the pictograph to solve.

8. How many more dogs than cats are there?

_____ more dogs

9. Which has the fewest? Circle.

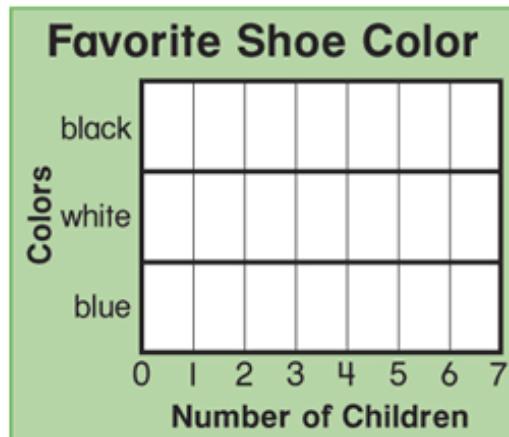
dogs birds cats



Chapter Review/Test

10. Use the tally chart.
Make a bar graph.

Favorite Shoe Color	
black	
white	
blue	



11. How many children choose white shoes? _____ children

12. Do more children choose black or blue shoes?
Circle. black blue

13. Circle the color fewer children choose. black white

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Problem Solving

Use the bar graph to solve.

14. How many children like white and blue shoes?

_____ children

15. How many more children like black shoes than blue shoes?

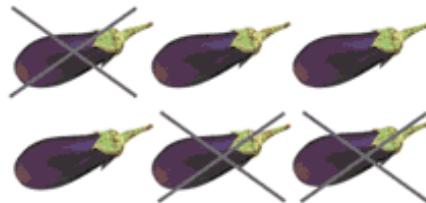
_____ more

Name _____

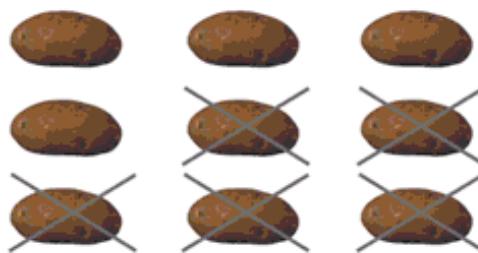
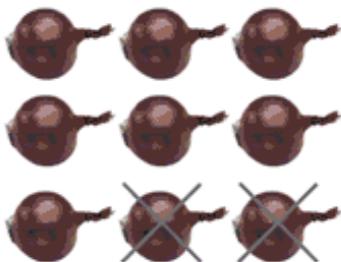
Estimation

Estimate how many.

1. Circle the group that has more left.



2. Circle the group that has more than 5 left.

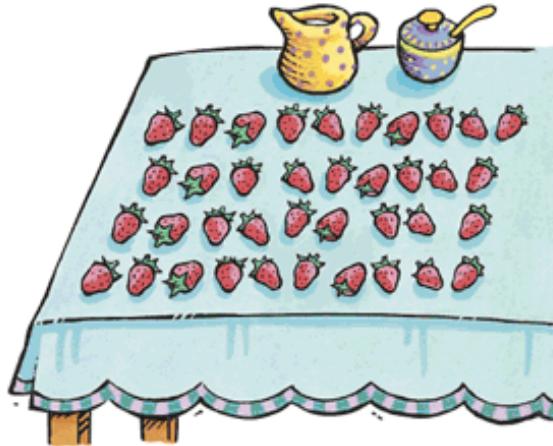


Estimate.

Count to check your answer.

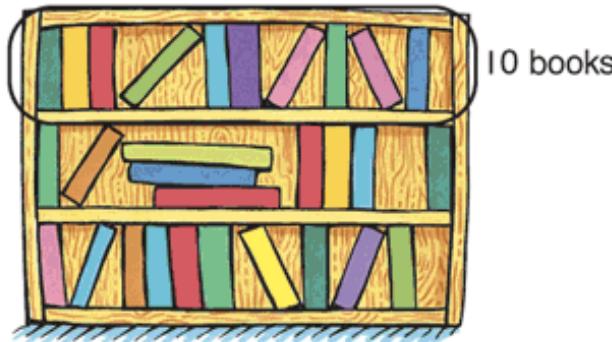
3. Chan estimates there are about 50 strawberries. Teva says there are about 200 strawberries.

Who is right?



4. Count 10 books on the library shelf. Now estimate how many books in all.

_____ books



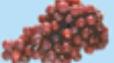
Education Place

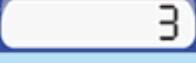
See eduplace.com/map
for brain teasers.

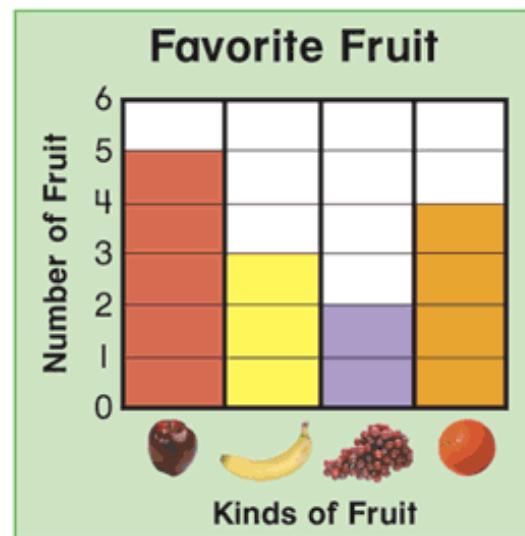


Calculator Use a Bar Graph

A  can help you compare numbers on a bar graph.

How many more  than  are there?

Press  



Use  and the bar graph.

1. How many  and  are there?

_____ in all

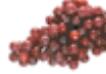
2. How many fewer  than  are there?

_____ fewer

3. How many  and  are there in all?

_____ in all

4. Circle the one that has 2 fewer fruit than .



Explain Your Thinking How many pieces of fruit are there altogether?

Name _____



Unit 1 Test

Vocabulary

Write the word to complete the sentence.

addend
difference

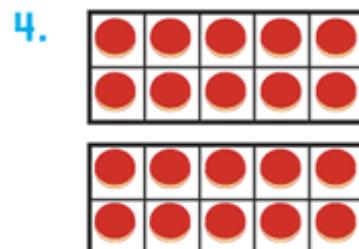
1. An _____ is a number added in an addition problem.
2. The _____ is the answer to a subtraction problem.

Concepts and Skills

Count. Write the number.



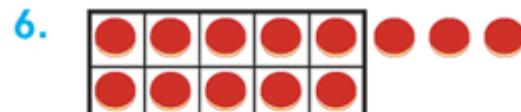
seven



twenty

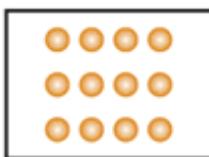
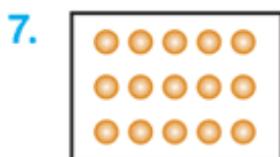


four



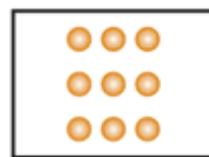
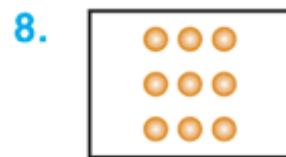
thirteen

Circle the words that make the sentence true.



15 is greater than
 is less than

12



is equal to
is less than

9. 4 is greater than
 is less than

7

10. 18 is greater than
 is less than

16



Unit 1 Test

Write the sum.

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 3 \\ \hline \end{array}$$

Write the difference.

$$\begin{array}{r} 3 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

Use the picture.

Make a pictograph.

17.

Toys



18. How many are there?

19. How many more than are there?



_____ more

Problem Solving

Write an addition sentence to solve.

Write the answer.

20. There are 5 ants on the hill.
3 more ants join them.
How many ants in all?

_____ _____ _____

_____ ants

Test-Taking Tips

.....

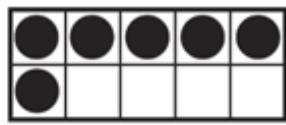
Read each question two times.

Fill in the correct .

If you are not sure how to find the answer, go on to the next question.

Multiple ChoiceFill in the for the correct answer.1. Count the .

Choose the number.



4 5 6 7

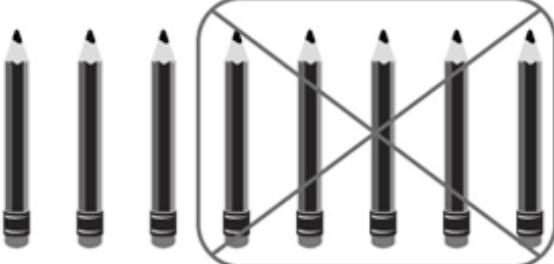
3. Add. How many  in all?

2 3 4 5

2. Add. Find the sum.

$$4 + 0 = \underline{\quad}$$

0 2 3 4

4. Subtract. How many  are left?

3 5 7 8

Multiple Choice

Fill in the for the correct answer.

NH means Not Here.

5. Subtract. Find the difference.

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

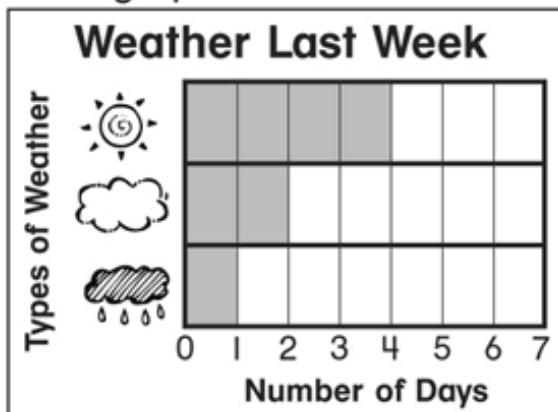
2 3 4 NH

6. How many children have ?

Our Pets			
			
			
			

1 3 5 7

7. How many sunny days does the graph show?

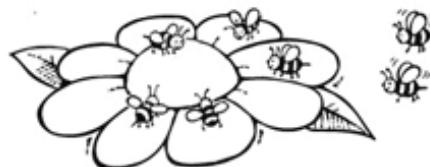


1 2 3 4

Open Response

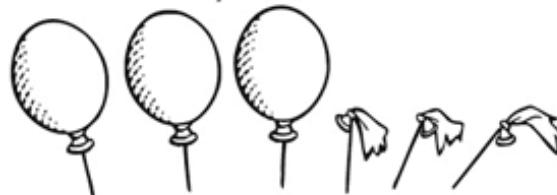
Solve.

8. There are 5 bees on the flower. 2 more bees join them. How many bees in all?



_____ bees

9. Alita has 6 balloons. 3 balloons pop. How many are left?



_____ balloons

10. Look at the picture. Write an addition sentence.





Education Place

Look for Cumulative Test Prep at
eduplace.com/map for more practice.



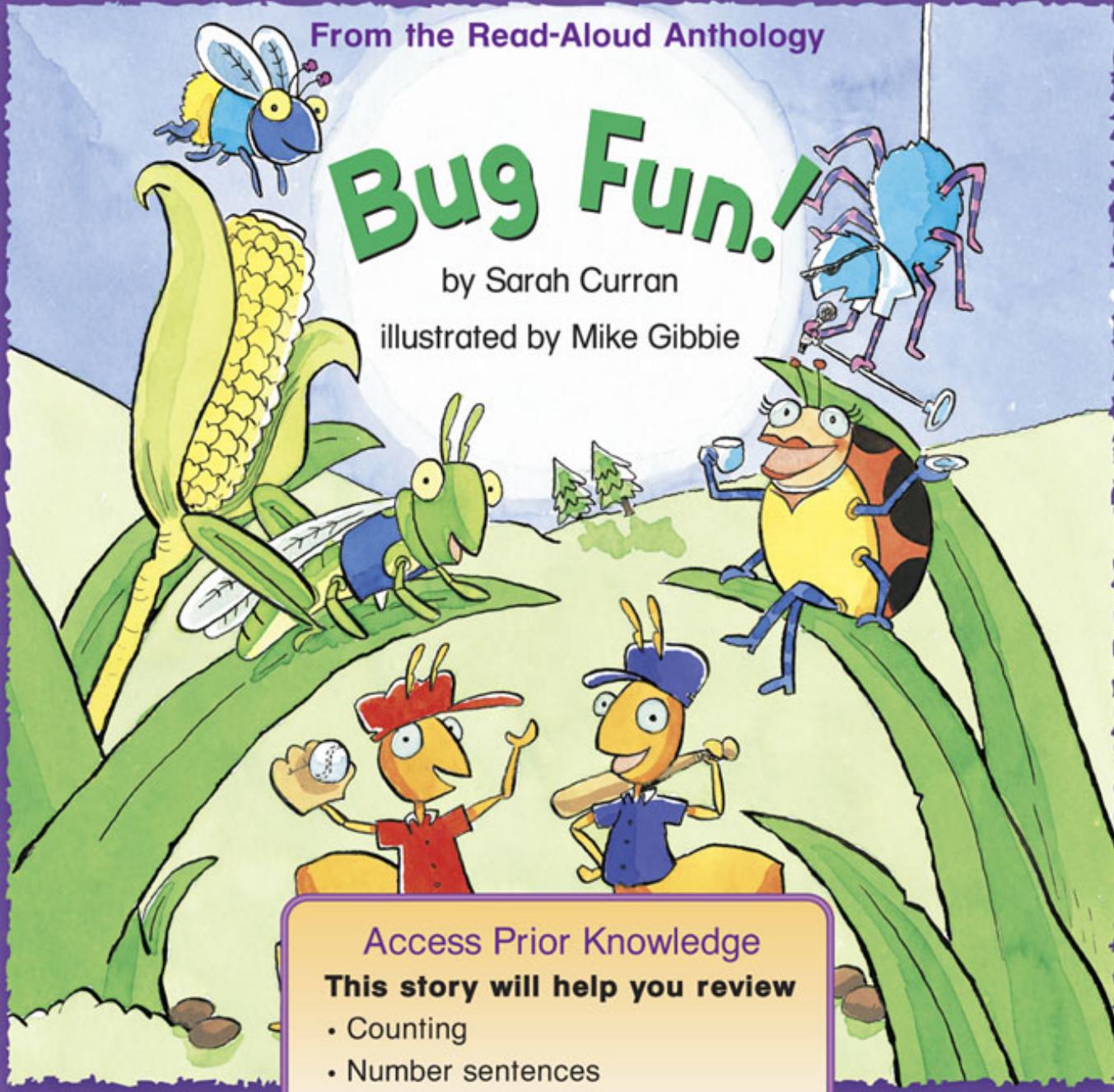
Addition and Subtraction Facts Through 10

From the Read-Aloud Anthology

Bug Fun!

by Sarah Curran

illustrated by Mike Gibbie



Access Prior Knowledge

This story will help you review

- Counting
- Number sentences

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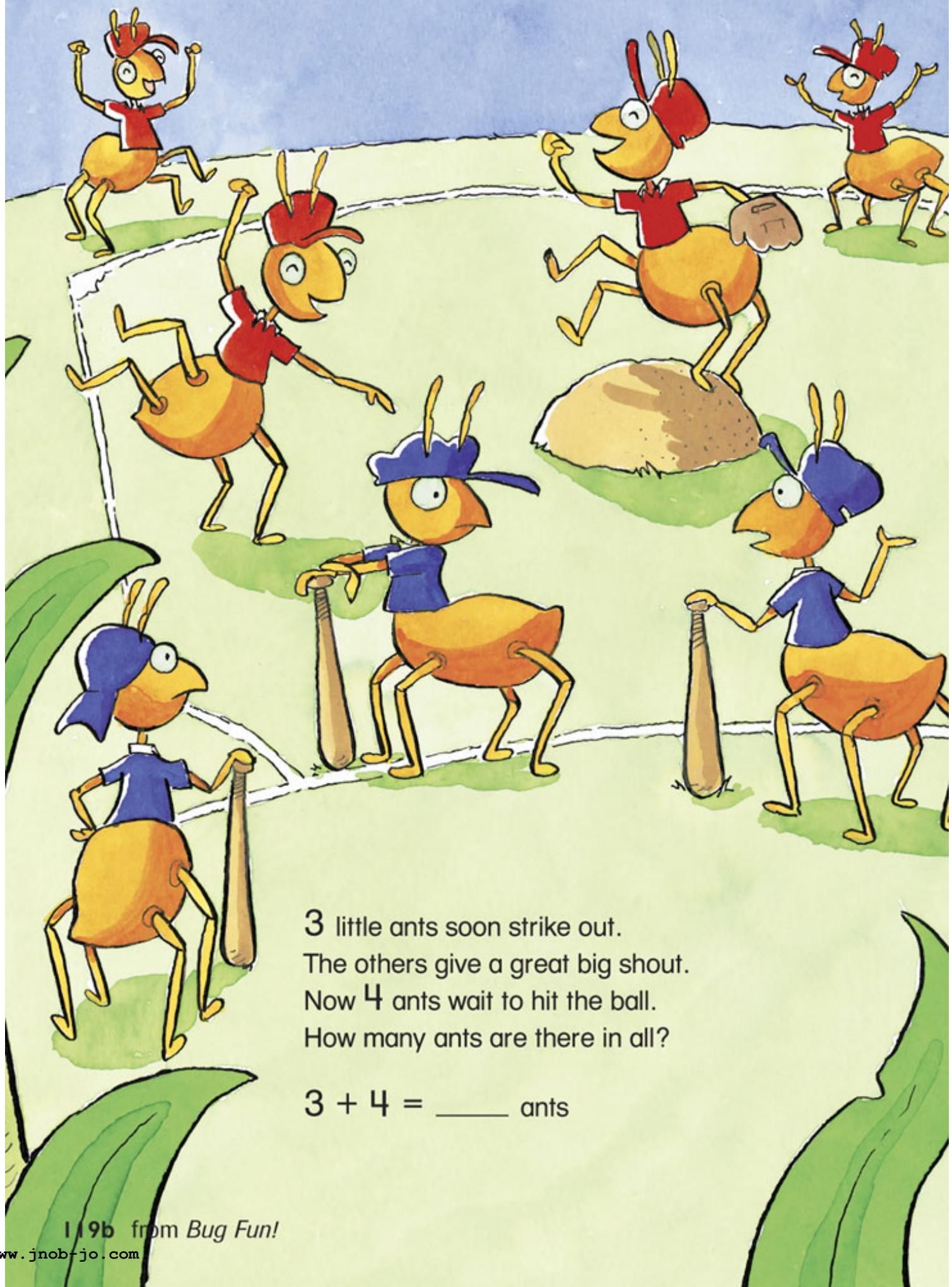
Printed in the U.S.A.

ISBN-13: 978-0-618-59091-9

ISBN-10: 0-618-59091-9

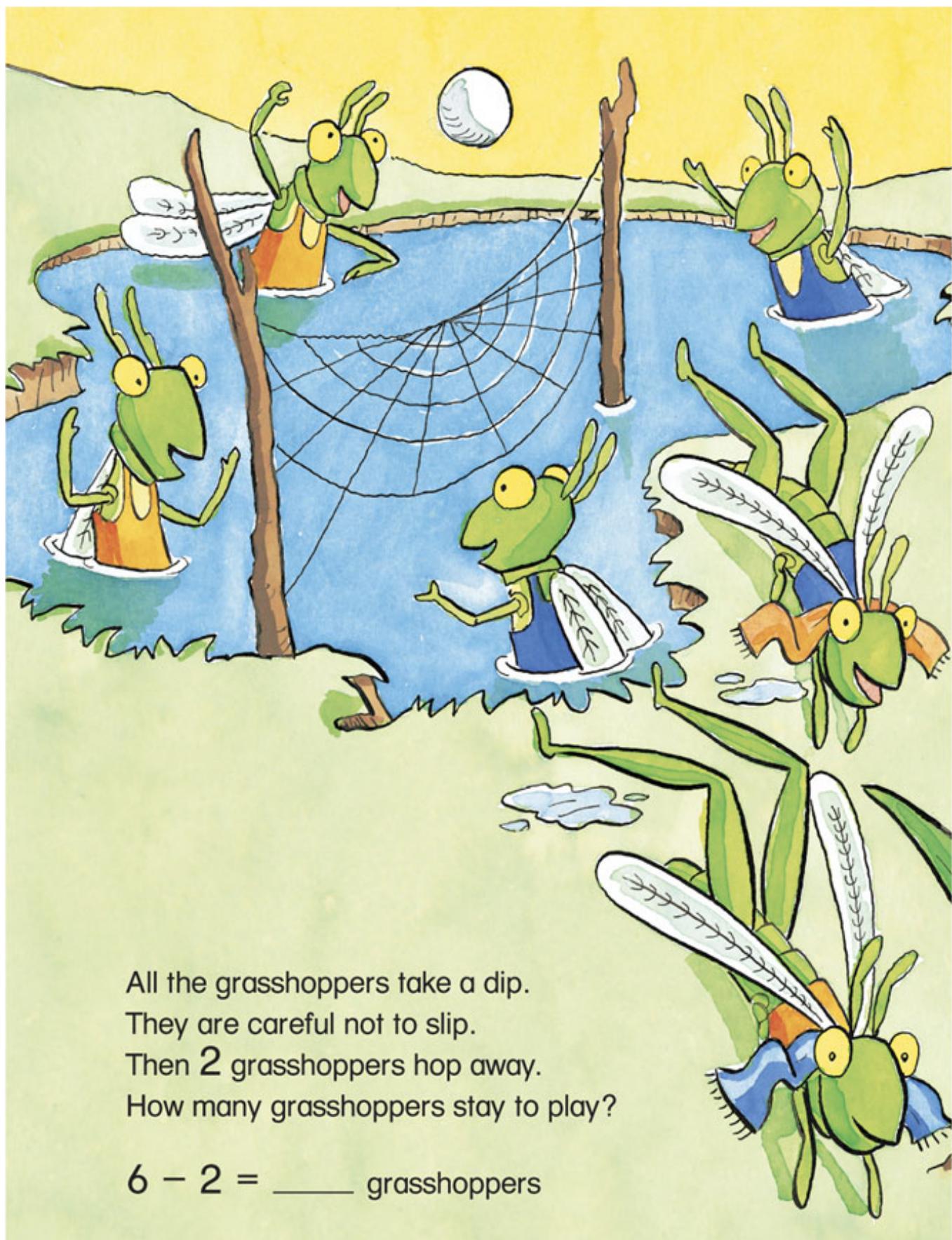
ISBN-13: 978-0-618-67177-9

ISBN-10: 0-618-67177-3



3 little ants soon strike out.
The others give a great big shout.
Now 4 ants wait to hit the ball.
How many ants are there in all?

$$3 + 4 = \underline{\hspace{2cm}} \text{ ants}$$



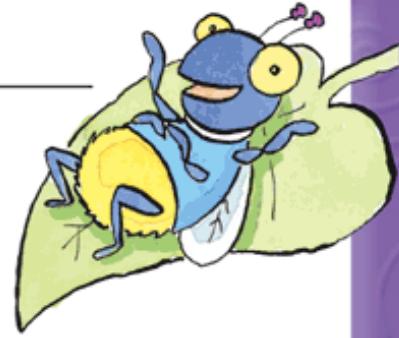
All the grasshoppers take a dip.
They are careful not to slip.
Then **2** grasshoppers hop away.
How many grasshoppers stay to play?

$$6 - 2 = \underline{\hspace{2cm}} \text{ grasshoppers}$$



Name _____

Use the pictures on pages 119a, 119b, and 119c.



1. How many bugs are on page 119a? _____ bugs

2. On page 119b there are ants wearing red or purple shirts.

How many ants are wearing red shirts? _____ ants

How many ants are wearing purple shirts? _____ ants

How many ants are there in all?

_____ + _____ = _____ ants

3. On page 119c there are **4** grasshoppers playing and **2** hopping away. How many grasshoppers will be left playing?

4 - **2** = _____ grasshoppers

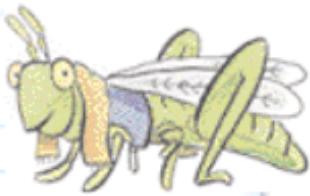
4. Look at the pictures on pages 119b and 119c. How many ants in red and grasshoppers in the water are there?

_____ + _____ = _____ bugs



MATH at Home

Dear Family,



My class is starting Unit 2. I will be learning about strategies to help me with addition and subtraction facts through 10. These pages show what I will learn and have activities for us to do together.

From, _____

Vocabulary

These are some words I will use in this unit.

count on A strategy used to add

Find $5 + 2$.

Say 5.

Count 6, 7.

$5 + 2 = 7$

count back A strategy used to subtract

Find $8 - 3$.

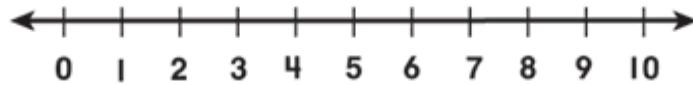
Say 8.

Count 7, 6, 5.

$8 - 3 = 5$

number line

A diagram that shows numbers in order as equally spaced points on a line



Some other words I may use are **addend** and **double**.

Vocabulary Activity

Let's work together to complete these sentences.

1. I can _____ to find $6 - 3$.
2. I can _____ to find $8 + 2$.



How To use strategies to add and subtract

These counting on and counting back problems are examples of what I will be learning.



Counting on


$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$6 + 1 = \underline{\quad}$


$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$6 + 2 = \underline{\quad}$

Counting back


$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

$6 - 1 = \underline{\quad}$


$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$6 - 2 = \underline{\quad}$

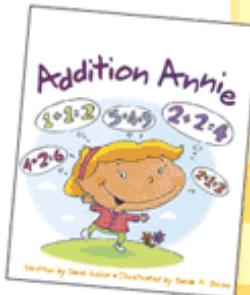
Literature

These books link to the math in this unit.
We can look for them at the library.

Addition Annie

by David Gisler

Illustrated by Sarah A. Beise
(Children's Press, 2002)



The Right Number of Elephants

by Jeff Sheppard

Two of Everything

by Lily Toy Hong



Education Place

We can visit *Education Place* at

eduplace.com/maf

for the Math Lingo game,
[e•Glossary](#), and more games
and activities to do together.



Addition Strategies Through 10

CHAPTER
5

INVESTIGATION

Write an addition story about the picture. Write the number sentence that matches your picture.





Flower Fun

Listen to your teacher.



Name _____

Count On to Add

You can **count on** to add.

Objective

Count on 1, 2, or 3 to find sums through 10.

Vocabulary

count on

Find $7 + 2$.

Start with 7. Count on 2.



$$7 + 2 = \underline{\quad 9 \quad}$$

Find $7 + 3$.

Start with 7. Count on 3.



$$7 + 3 = \underline{\quad 10 \quad}$$

Guided Practice

Count on to add.

1.

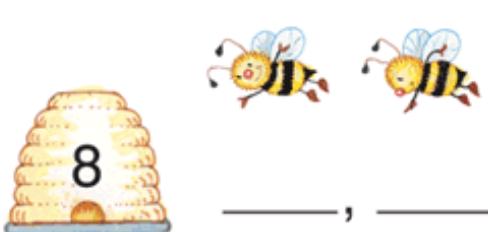


$$7 + 1 = \underline{\quad \quad}$$

Think

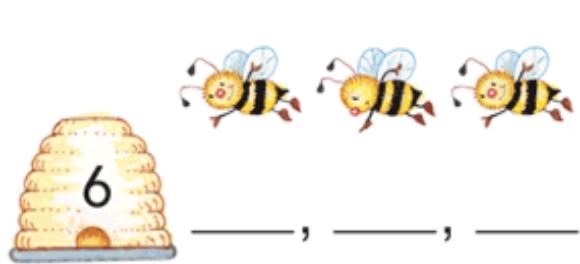
I start with 7.
I count on 1.

2.



$$8 + 2 = \underline{\quad \quad}$$

3.



$$6 + 3 = \underline{\quad \quad}$$

4.

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

Explain Your Thinking Count on to find $9 + 3$.

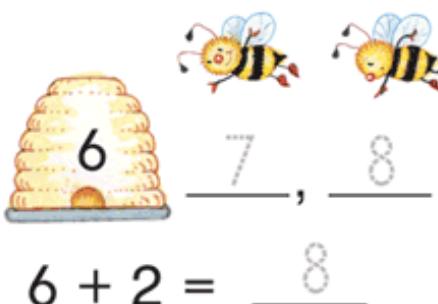
Do you count on the same way to find $3 + 9$? Why?

Practice

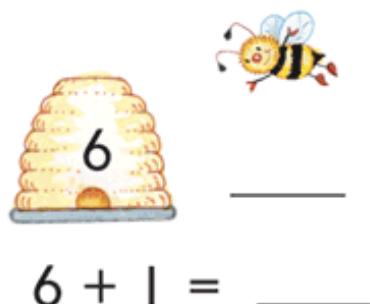
Count on 1, 2, or 3.

Count on to add.

1.



2.



3. $5 + 1 =$

4. $8 + 1 =$

5. $4 + 2 =$

6. $5 + 2 =$

7. $6 + 3 =$

8. $9 + 1 =$

9.
$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

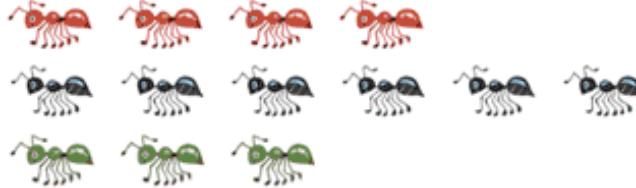
24.
$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

Problem Solving Visual Thinking

27. How many and ?



At Home Say a number from 1 through 8. Have your child count on 2 and then say the addition fact.

Name _____

Use a Number Line to Add

Find the greater number on the **number line**.
Count on.

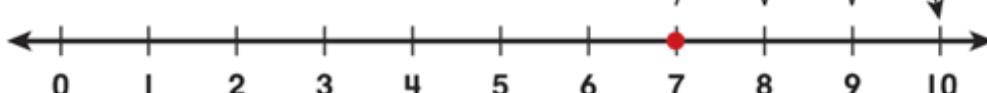
Objective

Find sums through 10 by counting on a number line.

Vocabulary

number line

$3 + 7 = \underline{\quad 10 \quad}$



Guided Practice

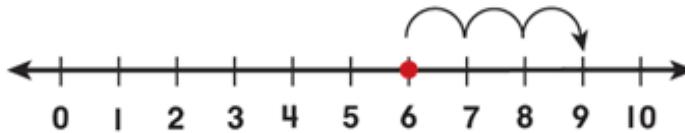
Use the number line.

Find the sum.

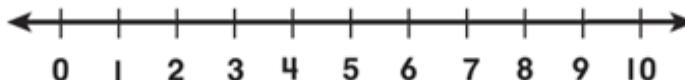
Think

6 is the greater number.
Say 6. Count 7, 8, 9.

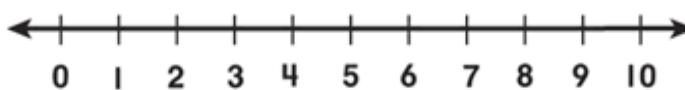
1. $6 + 3 = \underline{\quad}$



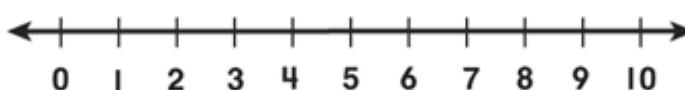
2. $5 + 2 = \underline{\quad}$



3.
$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$



4.
$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

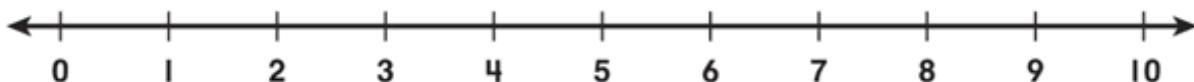


Explain Your Thinking Why is it helpful to start with the greater number?

Practice



Start with the greater number.



Use the number line.

Find the sum.

1. $4 + 2 = \underline{6}$ 2. $1 + 7 = \underline{\quad}$ 3. $8 + 2 = \underline{\quad}$

4. $3 + 5 = \underline{\quad}$ 5. $1 + 6 = \underline{\quad}$ 6. $2 + 3 = \underline{\quad}$

7. $\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$ 8. $\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$ 9. $\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$ 10. $\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$ 11. $\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$ 12. $\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$

13. $\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$ 14. $\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$ 15. $\begin{array}{r} 1 \\ + 4 \\ \hline \end{array}$ 16. $\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$ 17. $\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$ 18. $\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$

Problem Solving ► Number Sense

Use the number line.

19. What number is 2 more than 8?

20. What number is 3 more than 7?

21. What number is 2 more than 5?



Name _____

Use Doubles to Add



Audio Tutor 1 / 15 Listen and Understand

A **doubles fact** has two **addends** that are the same.



$$\begin{array}{r} 5 \\ \text{addend} \end{array} + \begin{array}{r} 5 \\ \text{addend} \end{array} = \begin{array}{r} 10 \\ \text{sum} \end{array}$$

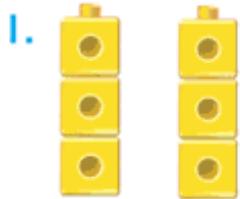
$$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$$

You can write the facts two ways.



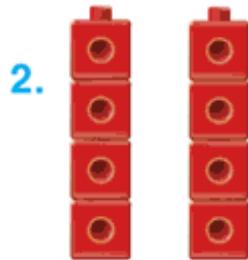
Guided Practice

Complete the addition sentence.



Think
These show $3 + 3$.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Write the sum.

3. $2 + 2 = \underline{\quad}$

4. $4 + 4 = \underline{\quad}$

5. $\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$

6. $\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$

Explain Your Thinking What things come in doubles?

Practice

Use doubles facts to help you find the sum.



Write the sum.

1. $3 + 3 = \underline{6}$ 2. $1 + 1 = \underline{2}$ 3. $2 + 2 = \underline{\quad}$

4. $4 + 4 = \underline{\quad}$ 5. $0 + 0 = \underline{\quad}$ 6. $5 + 5 = \underline{\quad}$

7. $\begin{array}{r} 0 \\ +0 \\ \hline \end{array}$

8. $\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$

9. $\begin{array}{r} 4 \\ +4 \\ \hline \end{array}$

10. $\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$

11. $\begin{array}{r} 1 \\ +1 \\ \hline \end{array}$

12. $\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$

13. $\begin{array}{r} 1 \\ +5 \\ \hline \end{array}$

14. $\begin{array}{r} 5 \\ +3 \\ \hline \end{array}$

15. $\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$

16. $\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$

17. $\begin{array}{r} 3 \\ +7 \\ \hline \end{array}$

18. $\begin{array}{r} 2 \\ +8 \\ \hline \end{array}$

19. $\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$

20. $\begin{array}{r} 9 \\ +0 \\ \hline \end{array}$

21. $\begin{array}{r} 5 \\ +5 \\ \hline \end{array}$

Algebra Readiness ▶ Missing Addends

Choose a number to make a doubles fact.

22. $\begin{array}{r} 4 \\ + \square \\ \hline 8 \end{array}$

23. $\begin{array}{r} \square \\ + 3 \\ \hline 6 \end{array}$

24. $\begin{array}{r} \square \\ + 5 \\ \hline 10 \end{array}$

25. $\begin{array}{r} 1 \\ + \square \\ \hline 2 \end{array}$

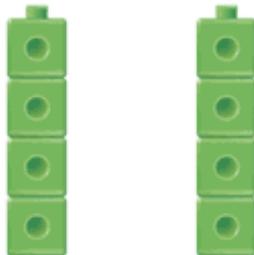


Name _____

Now Try This **Doubles Plus One**

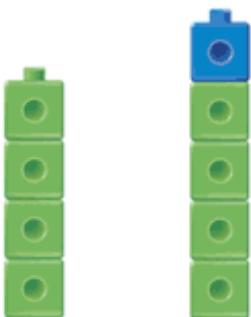
You learned that a doubles fact has two addends that are the same.

This is a doubles fact.



$$\underline{4} + \underline{4} = \underline{8}$$

This is a doubles plus one fact.

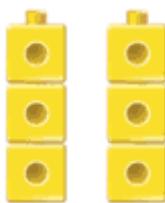


4 + 4 and
1 more.

$$\underline{4} + \underline{5} = \underline{9}$$

Complete the addition sentence.

1.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

doubles



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

doubles plus one

Write the sum.

You can use a doubles fact to help.

2. $3 + 3 = \underline{\quad}$ $3 + 4 = \underline{\quad}$ $4 + 3 = \underline{\quad}$

3. $\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$ $\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$

4. $\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$

Activity

Math Challenge Doubles Rule

Use the rule to complete the table.



Rule: Add doubles.

1	2
2	
3	
4	

Rule: Add doubles plus one.

1	3
2	
3	
4	



Quick Check

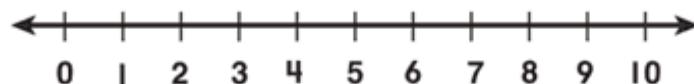
Count on to add.

1. $7 + 3 =$ _____ 2. $9 + 1 =$ _____ 3. $6 + 2 =$ _____

Find the sum.

4. $\begin{array}{r} 1 \\ +5 \\ \hline \end{array}$

5. $\begin{array}{r} 2 \\ +7 \\ \hline \end{array}$



6. $\begin{array}{r} 4 \\ +4 \\ \hline \end{array}$

7. $\begin{array}{r} 5 \\ +4 \\ \hline \end{array}$

8. $\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$

9. $\begin{array}{r} 4 \\ +3 \\ \hline \end{array}$

10. $\begin{array}{r} 4 \\ +5 \\ \hline \end{array}$

Name _____

Using Addition Strategies



Audio Tutor 1 / 16 Listen and Understand

Objective

Add using different strategies.

Ways to Add

- Count on
- Use a number line
- Use doubles
- Use counters
- Draw a picture



Guided Practice

Choose a way to add.

Write the sum.

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

Think
4 + 4 is a doubles fact. 4 + 5 is one more.

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline \end{array}$$

$$11. 3 + 0 = \underline{\quad} \quad 12. 4 + 6 = \underline{\quad} \quad 13. 3 + 5 = \underline{\quad}$$

$$14. 1 + 2 = \underline{\quad} \quad 15. 6 + 3 = \underline{\quad} \quad 16. 3 + 2 = \underline{\quad}$$

Explain Your Thinking How did you add 3 + 2? Why?

Practice

Choose a way to add.

Write the sum.

$$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$17. 1 + 1 = \underline{\quad}$

$18. 6 + 4 = \underline{\quad}$

$19. 5 + 1 = \underline{\quad}$

$20. 5 + 4 = \underline{\quad}$

$21. 2 + 8 = \underline{\quad}$

$22. 3 + 6 = \underline{\quad}$

Problem Solving Logical Thinking

Use the clues. Find each snail.

Write the correct letter.

23. Snail A has 

Snail B has 



Snail C has 

Snail D has 



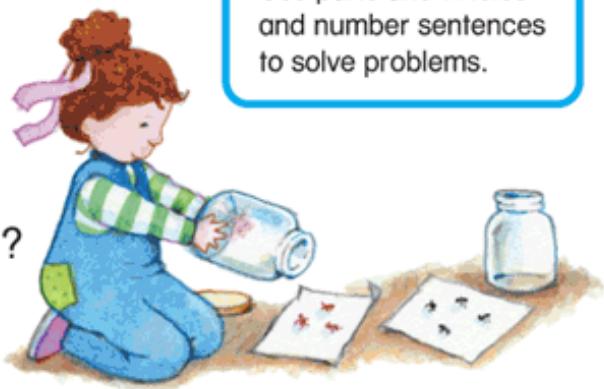
Name _____

Write a Number Sentence

Erin looks for ants.

She finds a group of 3 red ants
and a group of 4 black ants.

How many ants does Erin find in all?



Objective

Use parts and wholes
and number sentences
to solve problems.

UNDERSTAND

What do you know?

- Erin finds 3 red ants.
- Erin finds 4 black ants.

Whole	
Red	Black

PLAN

You know the parts.**You need to find the whole.**

Circle how you would solve the problem.

add

subtract

SOLVE

Write a number sentence.

$$\underline{3} + \underline{4} = \underline{7}$$

Erin finds 7 ants in all.

Whole	
Part	Part
3	4

LOOK BACK

How do you know your answer makes sense?

Guided Practice

Use Workmat 3 and .

Write a number sentence to solve.



Remember to use
the 4 steps.

Remember:
► Understand
► Plan
► Solve
► Look Back

1. Marta sees **4** beetles.
Brian sees **6** beetles.
How many beetles do
both children see?

Think

I add to find
how many.

_____  _____  _____
_____ beetles

2. There are **6** moths near
the light. **3** more
moths fly to the light.
How many moths are
near the light now?

Think

One part is 6.
The other part
is 3.

_____  _____  _____
_____ moths

Practice

3. There are **4** fireflies in the
air. **4** fireflies are in the
grass. How many fireflies
are there altogether?



_____  _____  _____
_____ fireflies

4. There is **1** flea on the dog.
Then, **2** more fleas land on
the dog. How many fleas
are on the dog now?

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_____  _____  _____
_____ fleas

Name _____

Strategies

Draw a Picture

Write a Number Sentence

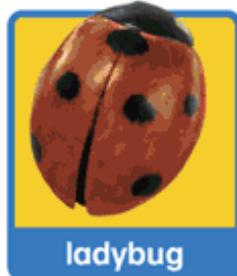
Act It Out With Models

Mixed Problem Solving

Solve.

1. There are 5 ladybugs on a leaf. 2 more ladybugs join them. How many ladybugs are on the leaf now?

Draw or write to explain.



_____ ladybugs

2. Mr. Ray sees 1 caterpillar on a log. Hailey sees 4 caterpillars on a log. How many caterpillars do they see on the log?



_____ caterpillars

3. Sofia counts 3 butterflies on a bush and 2 butterflies flying nearby. How many butterflies does she count in all?



_____ butterflies

4. **Multistep** David sees 6 dragonflies over the creek and 2 by the reeds. Then he sees 1 more by the sand. How many dragonflies does he see?



_____ dragonflies



At Home Use groups of 10 or fewer objects around you. Create addition problems that your child can solve.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. The class sees **6** bees on the hive. They see **2** bees on a flower. How many bees do they see altogether?

Show your work using pictures, numbers, or words.

_____ bees

2. There are **2** crickets in the grass. **5** crickets are on the path. How many crickets are there?

_____ crickets

Multiple Choice

Listen to your teacher read the problem.

Choose the correct answer.

3. **1** **5** **6** **10**



4. **5** **8** **9** **10**



Name _____

Now Try This **Add by Code**

Find the number for each shape.

Complete the sentence.

1. $\square + \square = 10$

2. $\square + \triangle = 8$

3. $\triangle + \bigcirc = 7$

4. $\bigcirc + \triangle = 9$

5. $\bigcirc + \square = 8$

6. $\bigcirc + \bigcirc = 8$



Write About It Use the code. Write your own number sentence.

Have a partner solve it using the code.

Problem Solving

Science Connection Caterpillar to Butterfly

A caterpillar hatches from an egg. In 4 weeks it wraps itself in a chrysalis. In 3 weeks the chrysalis opens. Out comes a butterfly.

About how many weeks does it take to change from caterpillar to butterfly?



WEEKLY WR READER eduplace.com/map

Key Topic Review

Tally Chart

Use the picture. Complete the tally chart.

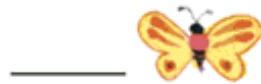
1.

Insects	



Use the tally chart to solve.

2. How many ?



3. How many ?



4. Which has more?



5. Which has fewer?

**Vocabulary**

1. Circle the **addends** in this fact.

$$5 + 4 = 9$$

2. Which do you use to **count on**? Circle.

number line spinner

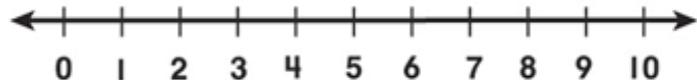
3. Write a **doubles fact**.

Concepts and Skills

Count on to add.

4. $9 + 1 = \underline{\quad}$ 5. $5 + 2 = \underline{\quad}$ 6. $6 + 2 = \underline{\quad}$

Use the number line.



Find the sum.

7. $8 + 1 = \underline{\quad}$ 8. $1 + 9 = \underline{\quad}$ 9. $2 + 4 = \underline{\quad}$

Write the sum.

10. $\begin{array}{r} 4 \\ +4 \\ \hline \end{array}$	11. $\begin{array}{r} 4 \\ +5 \\ \hline \end{array}$	12. $\begin{array}{r} 5 \\ +4 \\ \hline \end{array}$	13. $\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$	14. $\begin{array}{r} 4 \\ +3 \\ \hline \end{array}$	15. $\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$
--	--	--	--	--	--

16. $\begin{array}{r} 0 \\ +9 \\ \hline \end{array}$	17. $\begin{array}{r} 6 \\ +4 \\ \hline \end{array}$	18. $\begin{array}{r} 7 \\ +3 \\ \hline \end{array}$	19. $\begin{array}{r} 5 \\ +4 \\ \hline \end{array}$	20. $\begin{array}{r} 8 \\ +2 \\ \hline \end{array}$	21. $\begin{array}{r} 3 \\ +6 \\ \hline \end{array}$
--	--	--	--	--	--



Chapter Review/Test

Problem Solving

Write a number sentence to solve.

22. Gia sees 7 bumble bees and 1 honey bee. How many bees does she see in all?

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

23. There are 5 red ants and 4 black ants. How many ants are there altogether?

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

24. Jon finds 1 beetle.
Then he finds 5 more.
How many beetles
does Jon find?

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

25. There are 3 ladybugs on one leaf. There are 2 ladybugs on another. How many ladybugs are there in all?

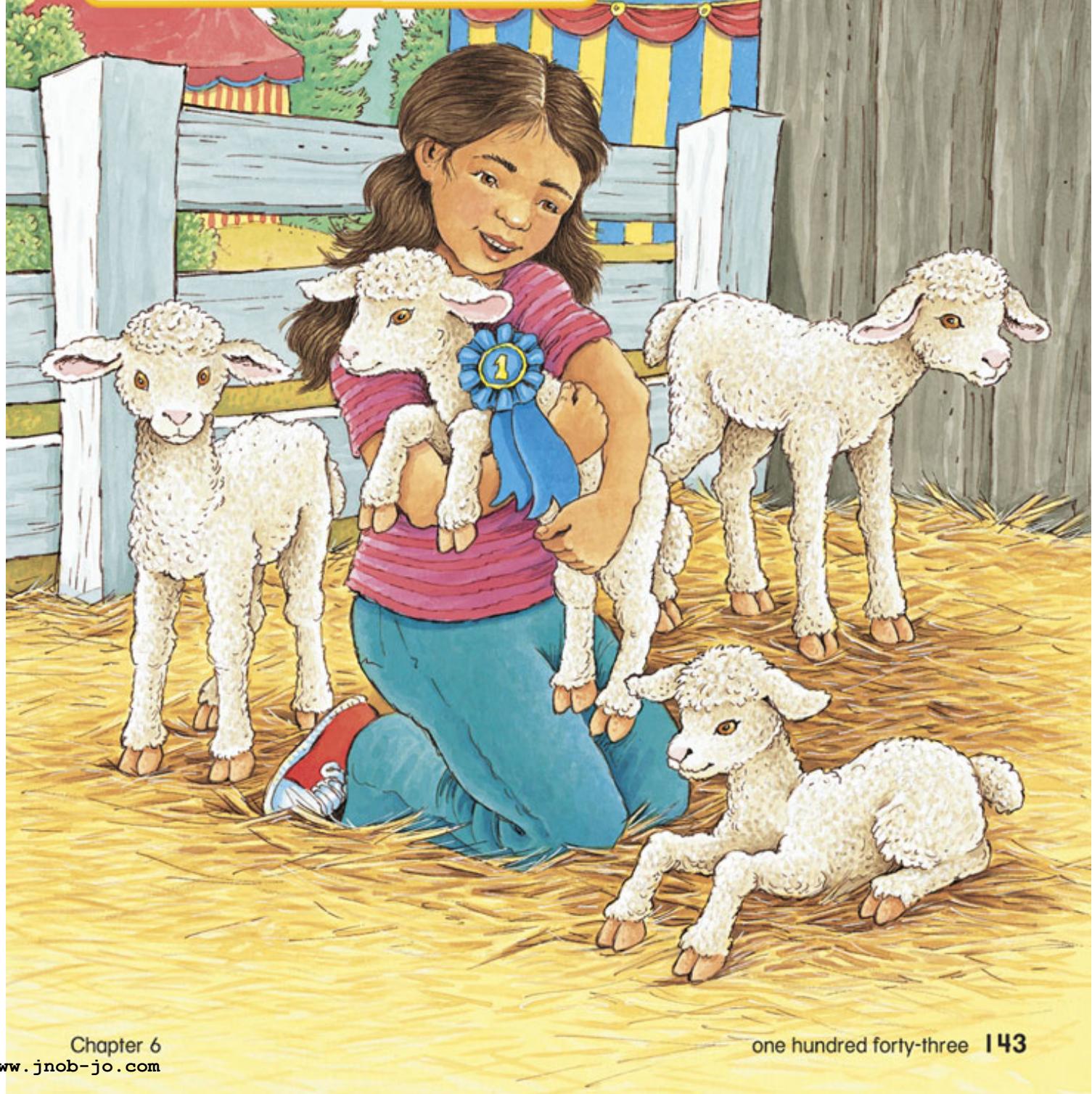
$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

Subtraction Strategies Through 10

CHAPTER
6

INVESTIGATION

When this girl takes her lamb away,
how many lambs will be left?





People Using Math

James Herriot

James Herriot was a man who loved animals. He became a veterinarian, a doctor that takes care of animals. He took care of farm animals and pets. Dogs were his favorite animals, and he had many dogs during his life.



James Herriot, author of
All Creatures Great and Small



Use the picture to solve the problems.

1. How many dogs are there? _____ dogs

2. How many ears are there altogether? _____ ears

If one dog walks away, how many ears are left?

_____  _____  _____ ears

3. How many tails are there altogether? _____ tails

If one dog walks away, how many tails are left?

_____  _____  _____ tails

4. **Talk About It** If you could choose any animal for a pet, what would you choose?

Name _____

Count Back to Subtract

You can **count back** to subtract.

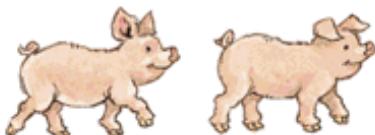
Objective

Find differences by counting back 1, 2, or 3.

Vocabulary

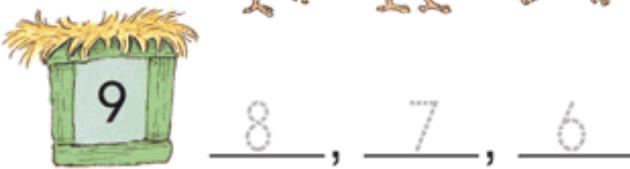
count back

Start with 9. Count back 2.



$9 - 2 = \underline{\quad} \quad \underline{\quad}$

Start with 9. Count back 3.



$9 - 3 = \underline{\quad} \quad \underline{\quad}$

Guided Practice

Count back to subtract.

Think

I start with 10.
I count back 2.

1.



_____ , _____

$10 - 2 = \underline{\quad}$

2.



_____ , _____ , _____

$10 - 3 = \underline{\quad}$

3.



$10 - 1 = \underline{\quad}$

4.



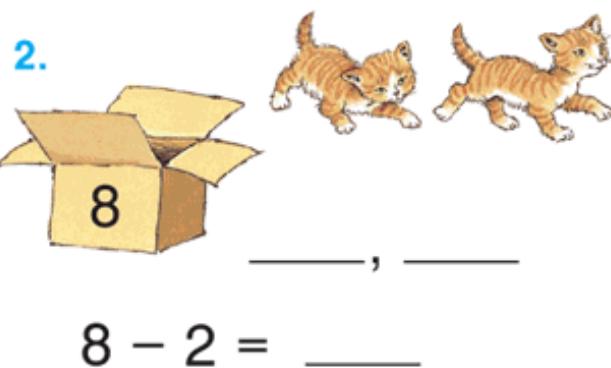
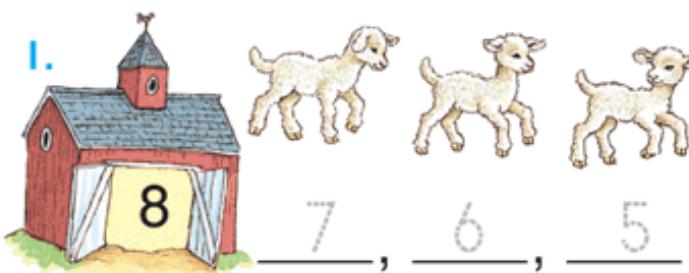
$9 - 1 = \underline{\quad}$

Explain Your Thinking How do you count back to find $8 - 2$?

Practice

Count back 1, 2, or 3.

Count back to subtract.



3. $10 - 3 = \underline{\quad}$ 4. $10 - 2 = \underline{\quad}$ 5. $10 - 1 = \underline{\quad}$

6. $7 - 2 = \underline{\quad}$ 7. $9 - 1 = \underline{\quad}$ 8. $2 - 2 = \underline{\quad}$

9. $\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$ 10. $\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$ 11. $\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$ 12. $\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$ 13. $\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$ 14. $\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$

15. $\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$ 16. $\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$ 17. $\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$ 18. $\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$ 19. $\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$ 20. $\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$

Problem Solving Reasoning

21. There are 4 sheep.
2 of the sheep are black.
How many sheep are white?

Draw or write to explain.

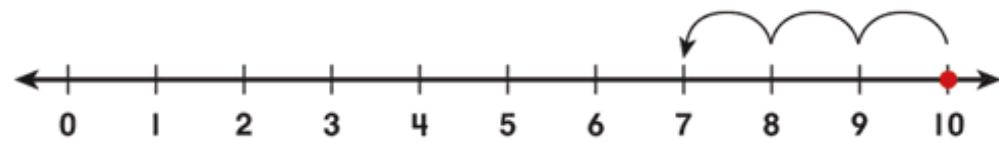
 white sheep



Name _____

Use a Number Line to Subtract

Use a **number line** to find $10 - 3$.



Objective

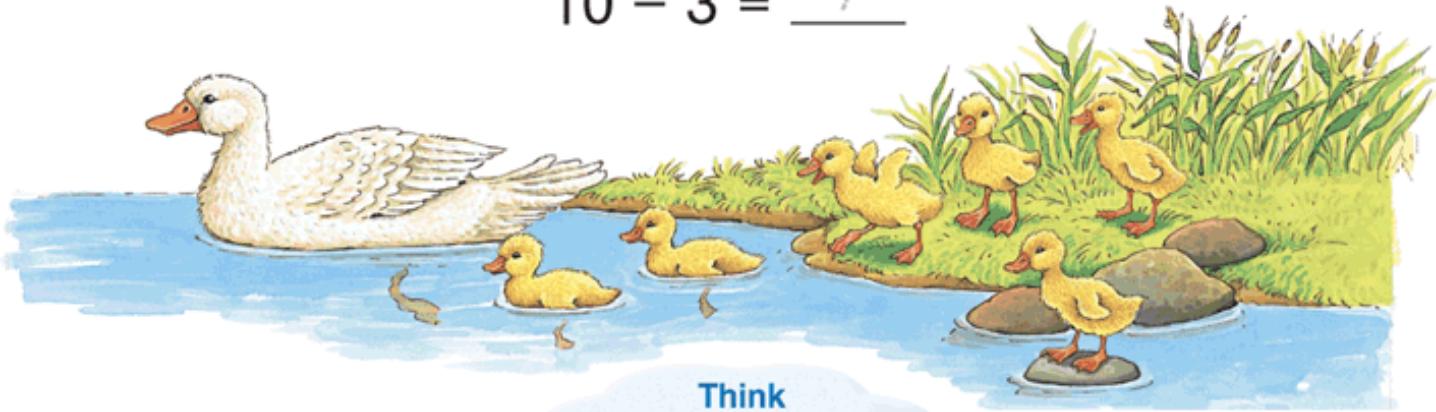
Subtract using a number line.

Vocabulary

number line

Start at 10.
Count back 3 by
saying 9, 8, 7.

$$10 - 3 = \underline{\quad 7 \quad}$$



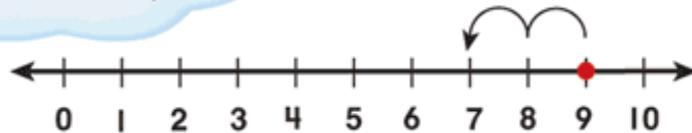
Think

9 is the greater number.
Say 9. Count 8, 7.

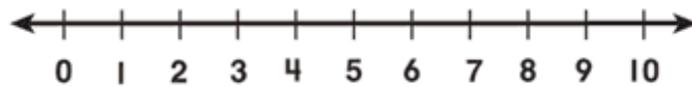
Guided Practice

Write the difference.

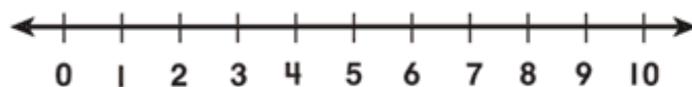
1. $9 - 2 = \underline{\quad}$



2. $10 - 1 = \underline{\quad}$



3.
$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$



4.
$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

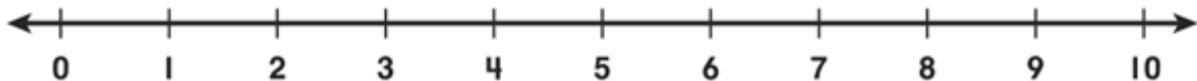
8.
$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

Explain Your Thinking Tell how you can use the number line to find $8 - 3$.

Practice

Find the number you are subtracting from on the number line.



Write the difference.

1. $9 - 1 = \underline{8}$ 2. $10 - 2 = \underline{\quad}$ 3. $7 - 1 = \underline{\quad}$

4. $6 - 3 = \underline{\quad}$ 5. $6 - 1 = \underline{\quad}$ 6. $7 - 2 = \underline{\quad}$

7.
$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$
 8.
$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$
 9.
$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$
 10.
$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$
 11.
$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$
 12.
$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$
 14.
$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$
 15.
$$\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$$
 16.
$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$
 17.
$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$
 18.
$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

Problem Solving ➤ Reasoning

19. Molly sees 10 pigs.
3 pigs walk away.
How many pigs are left?

Draw or write to explain.

_____ pigs

20. The 3 pigs come back.
How many pigs does
Molly see now?

_____ pigs



Name _____

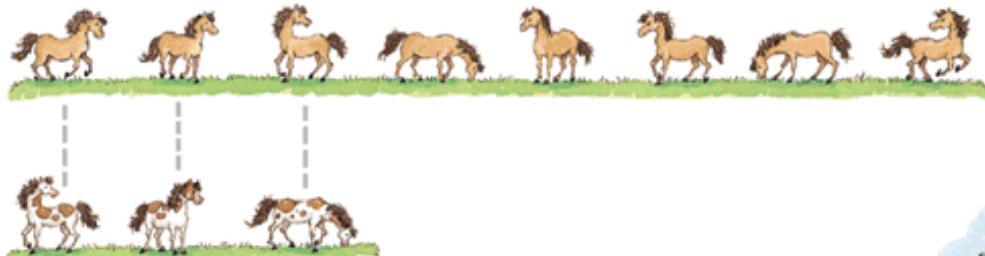
How Many More? How Many Fewer?



Audio Tutor 1 / 17 Listen and Understand

How many more  than  are there?

Match the  to the .



Count how many more  than .



You can subtract to compare sets of objects.

$$8 - 3 = \underline{5}$$

There are 5 more  than .

Guided Practice

Match. Then subtract.

I. How many fewer  than  are there?

Think
Match 4 to 4. How many do not have a match?



$$9 - 4 = \underline{\hspace{2cm}}$$

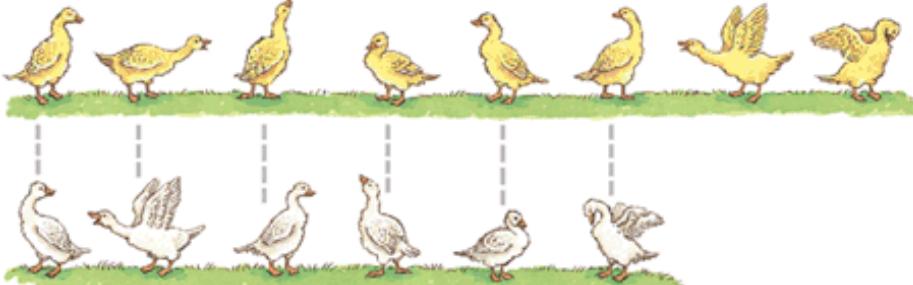
Explain Your Thinking Can you add to compare sets of objects? Why?

Practice

Count how many do not have a match.

Match. Then subtract.

1. How many more  than  are there?



$$8 - 6 = \underline{2}$$

2. How many fewer  than  are there?



$$9 - 5 = \underline{\hspace{2cm}}$$

3. How many more  than  are there?



$$10 - 4 = \underline{\hspace{2cm}}$$

Problem Solving Reasoning

4. Ratta sees 6 cows.

Then she sees 4 more.

How many cows does
Ratta see?

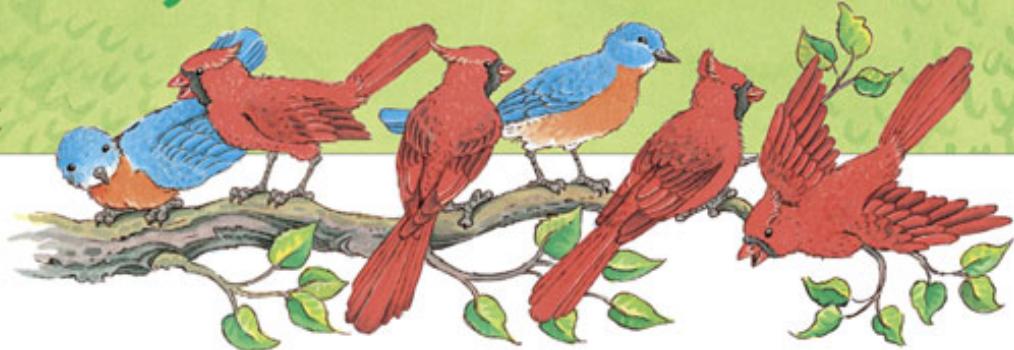
Draw or write to explain.



 COWS



Writing Math: Create and Solve



Write a subtraction story that compares the birds.

1.

Write the subtraction sentence.

2.

_____ \bigcirc _____ \bigcirc _____

Tell a story to match the number sentence. $7 - 4 = 3$

Draw a picture to show your story.

3.

Problem Solving

Math Challenge

Duck Feet

Leon counts 10 feet.

How many ducks are there?



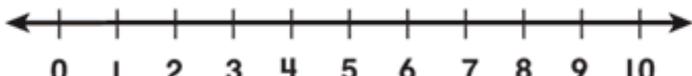
_____ ducks



Quick Check

Count back to subtract.

1. $10 - 1 = \underline{\hspace{2cm}}$ 2. $8 - 2 = \underline{\hspace{2cm}}$ 3. $9 - 3 = \underline{\hspace{2cm}}$



4. $\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$ 5. $\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$ 6. $\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$ 7. $\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$ 8. $\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$ 9. $\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$

Match.

Then subtract.



10. How many more  than ?



$8 - 6 = \underline{\hspace{2cm}}$

Name _____

Relate Addition and Subtraction



Audio Tutor 1/18 Listen and Understand

These facts are **related facts**.

They have the same parts and wholes.

Objective

Write and solve related addition and subtraction facts.

Vocabulary

related facts



Workmat 3

Whole

Part Part

6 orange cubes and 3 blue cubes. How many in all?



$$\underline{6} + \underline{3} = \underline{9}$$

9 cubes. 3 are blue. How many orange?

Workmat 3

Whole

9

Part Part

$$\underline{9} - \underline{3} = \underline{6}$$



Guided Practice

Use , , and Workmat 3.

Show the parts. Complete the related facts.

Think

8 and 1 are the parts. I need to find the whole.

1. 8 and 1 $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$

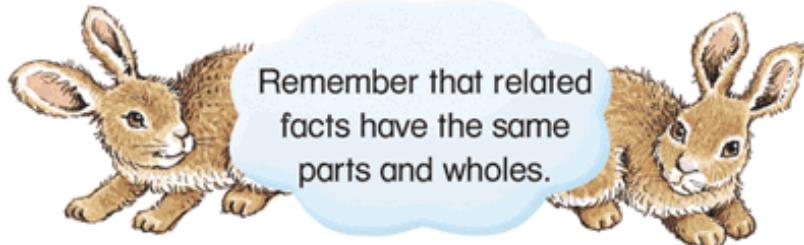
2. 5 and 4 $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$

3. 4 and 6 $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$

Explain Your Thinking How are the number sentences $5 + 2 = 7$ and $7 - 2 = 5$ related?

Practice

Use  and  , and Workmat 3.
Show the parts.
Complete the related facts.



Remember that related facts have the same parts and wholes.

1.

Whole		
Part	Part	
		

$$4 + 6 = \underline{\quad 10 \quad}$$

$$10 - 6 = \underline{\quad 4 \quad}$$

2.

Whole		
Part	Part	
		

$$3 + 5 = \underline{\quad \quad}$$

$$8 - 5 = \underline{\quad \quad}$$

3. 7 and 3

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

4. 2 and 7

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

5.

<u>2</u>	<u>10</u>
<u>+8</u>	<u>8</u>

6.

<u>4</u>	<u>7</u>
<u>+3</u>	<u>3</u>

7.

<u>1</u>	<u>10</u>
<u>+9</u>	<u>9</u>

Write the difference.

Circle the related addition fact.

8.

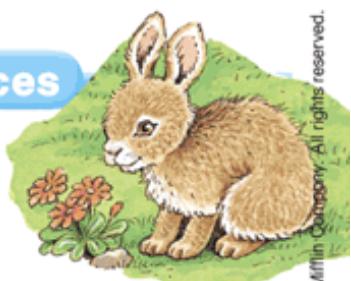
<u>10</u>	
<u>- 4</u>	

$6 + 4 = 10$
$5 + 4 = 9$

9.

<u>9</u>	
<u>- 5</u>	

$5 + 5 = 10$
$4 + 5 = 9$



Name _____

Fact Families



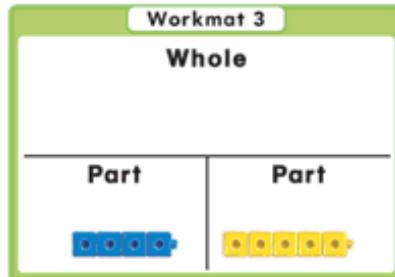
Audio Tutor 1 / 19 Listen and Understand

Related facts make a **fact family**.

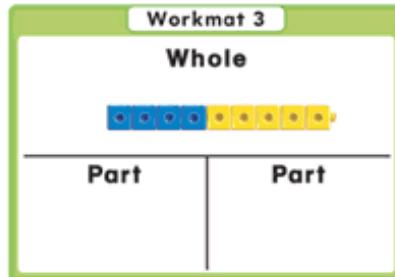
This fact family uses the numbers **9**, **5**, and **4**.

Whole	
9	
Part	Part
4	5

9 is the whole.
4 and 5 are
the parts.



$$\underline{4} + \underline{5} = \underline{9}$$
$$\underline{5} + \underline{4} = \underline{9}$$



$$\underline{9} - \underline{5} = \underline{4}$$
$$\underline{9} - \underline{4} = \underline{5}$$

Guided Practice

Use , , and Workmat 3.
Complete the fact family.

1.

Whole	
10	
Part	Part
6	4

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Think
I use 10, 6, and 4
to write the related
facts.



2.

Whole	
9	
Part	Part
6	3

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Explain Your Thinking What other fact is
related to $4 + 4 = 8$?

Hands-On

Objective

Write fact families
using related facts.

Vocabulary

fact family

Practice

Use  ,  , and Workmat 3.

Complete the fact family.

Remember that the two parts equal the whole.

1.

Whole	
Part	Part
7	3

$$\underline{7} + \underline{3} = \underline{10} \quad \underline{10} - \underline{3} = \underline{7}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

2.

Whole	
Part	Part
8	
2	6

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

3.

Whole	
Part	Part
10	
2	8

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

4.

Whole	
Part	Part
9	
5	4

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

Algebra Readiness ➤ Missing Addends

Choose a number to complete the number sentence.



5.

$$\boxed{\quad} + 4 = 10$$

$$\boxed{\quad} + 3 = 10$$



Using Subtraction Strategies



Audio Tutor 1/20 Listen and Understand

Objective

Subtract using different strategies.

Ways to Subtract

- Count back
- Use a number line
- Draw a picture
- Use a related addition fact



Guided Practice

Choose a way to subtract.

Write the difference.

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

Think
I can count back 3. Say 10. Count 9, 8, 7.

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$12. \quad 7 - 2 = \underline{\quad} \quad 13. \quad 10 - 4 = \underline{\quad} \quad 14. \quad 9 - 9 = \underline{\quad}$$

$$15. \quad 10 - 5 = \underline{\quad} \quad 16. \quad 10 - 1 = \underline{\quad} \quad 17. \quad 9 - 5 = \underline{\quad}$$

Explain Your Thinking How did you find $9 - 5$?

Practice

Choose a way to subtract.

Write the difference.

$$\begin{array}{r} 1. \ 3 \\ - 3 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 2. \ 5 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \ 2 \\ - 1 \\ \hline \end{array}$$

Ways to Subtract

- Count back
- Use a number line
- Draw a picture
- Use a related addition fact



$$\begin{array}{r} 7. \ 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \ 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \ 9 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \ 5 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \ 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \ 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \ 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \ 4 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \ 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \ 1 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \ 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \ 7 \\ - 4 \\ \hline \end{array}$$

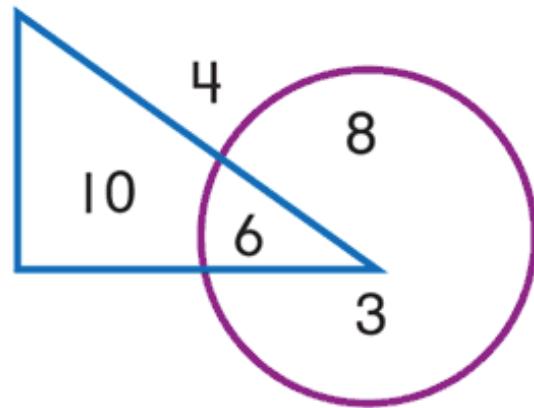
$$19. \ 7 - 0 = \underline{\quad} \quad 20. \ 5 - 1 = \underline{\quad} \quad 21. \ 10 - 8 = \underline{\quad}$$

$$22. \ 3 - 2 = \underline{\quad} \quad 23. \ 6 - 5 = \underline{\quad} \quad 24. \ 6 - 2 = \underline{\quad}$$

Problem Solving Logical Thinking

Use clues to find the number.

25. I am inside a shape.
I am greater than 5.
I am less than 9.
I am not in the triangle.



Which number am I?



At Home Ask your child to explain how to subtract $10 - 4$ using different strategies.

Name _____

Choose the Operation



Audio Tutor 1/21 Listen and Understand



Objective

Solve problems by choosing the correct operation.

Use subtraction to solve a problem.

9 sheep are eating grass.
1 sheep goes away.

How many sheep are there now?

sheep eating grass	
9	
sheep that go away	sheep that are left
1	

Think
I know the whole and one of the parts. I can subtract to find the other part.

$$\begin{array}{r} 9 \\ - 1 \\ \hline 8 \end{array} \begin{array}{l} \text{sheep} \\ \text{goes away} \\ \text{sheep now} \end{array}$$

Use addition to solve a problem.

8 ducks are eating seeds.
2 more come to eat.

How many ducks are there in all?

number of ducks in all	
ducks eating seeds	ducks that come
8	2

Think
I know the parts. I can add to find the whole.

$$\begin{array}{r} \boxed{} \\ + \boxed{} \\ \hline \boxed{} \end{array} \begin{array}{l} \text{ducks} \\ \text{more} \\ \text{ducks in all} \end{array}$$

Guided Practice

Choose the operation to solve.

1. There are **8** horses in the barn.
2 horses leave. How many horses are in the barn now?

Draw or write to explain.

Think
I need to find how many are left.

_____ horses

2. **5** cows are eating grass.
4 more join them to eat.
How many cows are eating?

Think
I need to find how many in all.

_____ cows

Practice

3. **9** pigs are in the pen.
3 pigs go away.
How many pigs are left?

_____ pigs

4. **4** chicks are eating.
4 more come to eat.
How many chicks are eating in all?



_____ chicks

Name _____

Strategies

Act It Out With Models

Draw a Picture

Mixed Problem Solving

Solve.

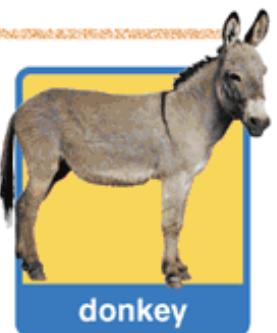
1. There are 2 brown cows.
There are 5 black cows.
How many cows are there in all?

Draw or write to explain.



_____ cows

2. 9 donkeys are outside.
2 go into the barn.
How many donkeys are outside now?



_____ donkeys

3. The farmer has 1 rooster.
She gets 5 more roosters.
How many roosters are there?



_____ roosters

4. **Multistep** 8 goats are eating. 5 goats leave.
Then, 2 goats come back to eat more. How many goats are eating now?



_____ goats



At Home Create problems that your child can solve by either adding or subtracting.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. There are **4** horses in one stable.
There are **6** horses in another stable. How many horses are there in both stables?

Show your work using pictures, numbers, or words.

_____ horses

2. There are **6** horses in the barn.
2 are taken out for a run. How many horses are still in the barn?

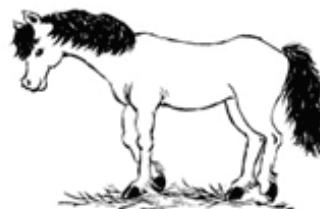
_____ horses

Multiple Choice

Listen to your teacher read the problem.

Choose the correct answer.

3. **2** **6** **8** **14**



4. **5** **6** **9** **10**



Name _____

Now Try This

Check Subtraction

You can use related addition facts to check subtraction.

Subtract.

$$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$$

Check by adding.

$$\begin{array}{r} 7 \\ + 3 \\ \hline 10 \end{array}$$

If the sum equals the number you subtracted from, your answer is correct.



Subtract. Check by adding.

1. $\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$

$\begin{array}{r} \\ + \\ \hline \end{array}$

$\begin{array}{r} \\ \\ \hline \end{array}$

2. $\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$

$\begin{array}{r} \\ + \\ \hline \end{array}$

$\begin{array}{r} \\ \\ \hline \end{array}$

3. $\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$

$\begin{array}{r} \\ + \\ \hline \end{array}$

$\begin{array}{r} \\ \\ \hline \end{array}$

4. $\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$

$\begin{array}{r} \\ + \\ \hline \end{array}$

$\begin{array}{r} \\ \\ \hline \end{array}$

5. $\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$

$\begin{array}{r} \\ + \\ \hline \end{array}$

$\begin{array}{r} \\ \\ \hline \end{array}$

6. $\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$

$\begin{array}{r} \\ + \\ \hline \end{array}$

$\begin{array}{r} \\ \\ \hline \end{array}$

Problem Solving

Science Connection Red Pandas

Red pandas live in the mountains in Asia.

In the morning, a red panda eats 10 bamboo leaves.

In the afternoon, he eats 6 bamboo leaves.

How many more leaves does the panda eat in the morning than in the afternoon?



_____ leaves

WEEKLY WR READER eduplace.com/map

Key Topic Review

Sums Through 10

Write the sum.

1. $8 + 1 =$ _____ 2. $9 + 1 =$ _____ 3. $7 + 3 =$ _____

4. $6 + 3 =$ _____ 5. $8 + 2 =$ _____ 6. $5 + 3 =$ _____

7. $4 + 5 =$ _____ 8. $2 + 7 =$ _____ 9. $3 + 4 =$ _____

10. $\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$ 11. $\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$ 12. $\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$ 13. $\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$ 14. $\begin{array}{r} 0 \\ + 8 \\ \hline \end{array}$ 15. $\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$

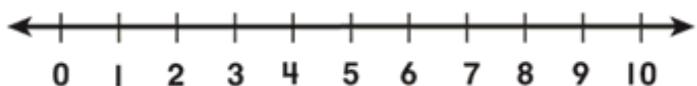
**Vocabulary**1. Which can you use to subtract $10 - 1$?

Circle.

count on**count back**

2. What is this called?

Circle.

**number line****fact family**3. Write a **related fact** for $8 + 1 = 9$.

$\underline{\quad} - \underline{\quad} = \underline{\quad}$

Concepts and Skills

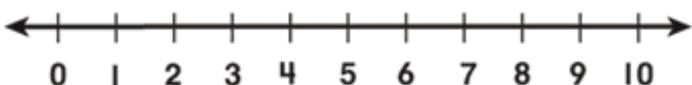
Count back to subtract.

4. $10 - 1 = \underline{\quad}$

5. $10 - 3 = \underline{\quad}$

6. $8 - 2 = \underline{\quad}$

Find the difference.

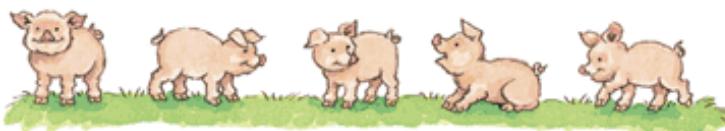


7. $9 - 2 = \underline{\quad}$

8. $6 - 3 = \underline{\quad}$

9. $7 - 1 = \underline{\quad}$

Match. Then subtract.

10. How many more  than  are there?

$5 - 2 = \underline{\quad}$



Chapter Review/Test

Complete the related facts.

$$11. \begin{array}{r} 7 \\ + 2 \\ \hline \end{array} \begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$12. \begin{array}{r} 6 \\ + 4 \\ \hline \end{array} \begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$13. \begin{array}{r} 5 \\ + 4 \\ \hline \end{array} \begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

Complete the fact family.

14.

Whole	
10	
Part	
3	7

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Write the difference.

$$15. \begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$16. \begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$17. \begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$18. \begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

Problem Solving

Choose the operation to solve.

Draw or write to explain.

19. Kate sees 10 baby chicks. 6 chicks run away. How many chicks are left?

_____ chicks

20. On Monday Luca milks 3 cows. On Tuesday he milks 4 cows. How many cows does he milk in all?

_____ COWS

Name _____

Estimating Sums and Differences

Circle the best estimate.

more than 7

1. $7 + 1$

less than 7

more than 9

2. $9 - 3$

less than 9

more than 5

3. $4 + 2$

less than 5

more than 6

4. $7 - 2$

less than 6

Estimate.

5. **Talk About It** Is $5 + 3$ more than 6?

Tell how you know.

6. About how many bugs are there?

about _____

Now count the bugs.

How many bugs are there? _____



Write About It Was your estimate reasonable? Why?



Education Place

Visit eduplace.com/map for
brain teasers.



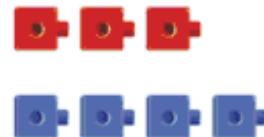
Computer Cubes to Add



Use the connecting cubes found at eduplace.com/map to add.

Sam has 3 stamps. He finds 4 more. How many stamps does Sam have in all?

1. Put your pointer over the **Stamp** tool.
 - Click the red cube 3 times.



2. Put your pointer over the **Stamp** tool.
 - Click the blue cube 4 times.
3. Click [1 2 3].



1 2 3

7

Tour

Use the cubes.

Write each sum.

1. $2 + 3 =$ _____

2. $4 + 5 =$ _____

3. There are 2 girls and 4 boys in line. How many children are in line?

_____ children

4. Tim draws 3 circles and 1 square. How many shapes does Tim draw?

_____ shapes

**Vocabulary**

Complete the sentence.

1. A _____ helps me add and subtract.

doubles

number line

related facts

2. $2 + 2$ is a _____ fact.

3. _____ have the same parts and whole.

Concepts and Skills

Use an addition strategy.

Write the sum.

4.
$$\begin{array}{r} 8 \\ +2 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 9 \\ +1 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 5 \\ +4 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 1 \\ +6 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 6 \\ +0 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 3 \\ +3 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 8 \\ +1 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$$

Use a subtraction strategy.

Write the difference.

14.
$$\begin{array}{r} 10 \\ -0 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 8 \\ -8 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 9 \\ -4 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 5 \\ -1 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 9 \\ -6 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 6 \\ -3 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 7 \\ -6 \\ \hline \end{array}$$



Unit 2 Test

Use and , and Workmat 3.

Show the parts. Complete the related facts.

24. 6 and 1

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

25. 2 and 7

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

26. 8 and 2

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

27. $5 + 3 = \underline{\quad}$

28. $1 + 9 = \underline{\quad}$

$8 - 3 = \underline{\quad}$

$10 - 1 = \underline{\quad}$

Use and , and Workmat 3.

Complete the fact family.

29.

Whole	
Part	
Part	Part
9	
6	3

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

Problem Solving

Choose the operation to solve.

30. Rae sees 5 chickens eating.

3 more chickens come to eat. How many chickens are eating now?

Draw or write to explain.

 chickens

Test-Taking Tips

Work slowly.

Check your work.

If you are not sure how to find the answer, go on to the next question.

Multiple ChoiceFill in the for the correct answer.1. Count on to add.

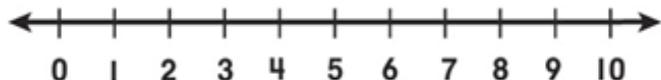
$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

3 5 7 9

2. Use a doubles fact to add.

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

6 7 8 9

3. What number is 2 more than 4?

4 6 7 8

4. Look at the pictograph. How many children choose bears?

Favorite Animals	
	<input type="radio"/> <input type="radio"/> <input type="radio"/>
	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>

3 4 5 6

Multiple Choice

Fill in the for the correct answer.

N means Not Here.

5. Count back to subtract.

$$10 - 3$$

7	6	5	N
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. How many more  than ?



1	2	3	4
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. Which number is greater than 7?

9	7	5	3
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Open Response

Solve.

8. There are 2 ducks in the water. 3 more ducks come. How many ducks are there in all?

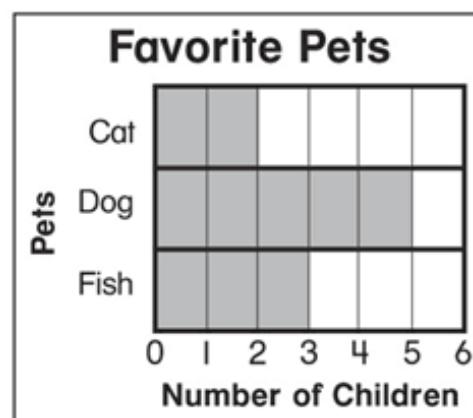
_____ ducks

Write the number sentence.

9. Write this fact another way.

$$6 + 2 = 8$$

10. How many children choose fish?



_____ children





Geometry and Fractions

From the Read-Aloud Anthology

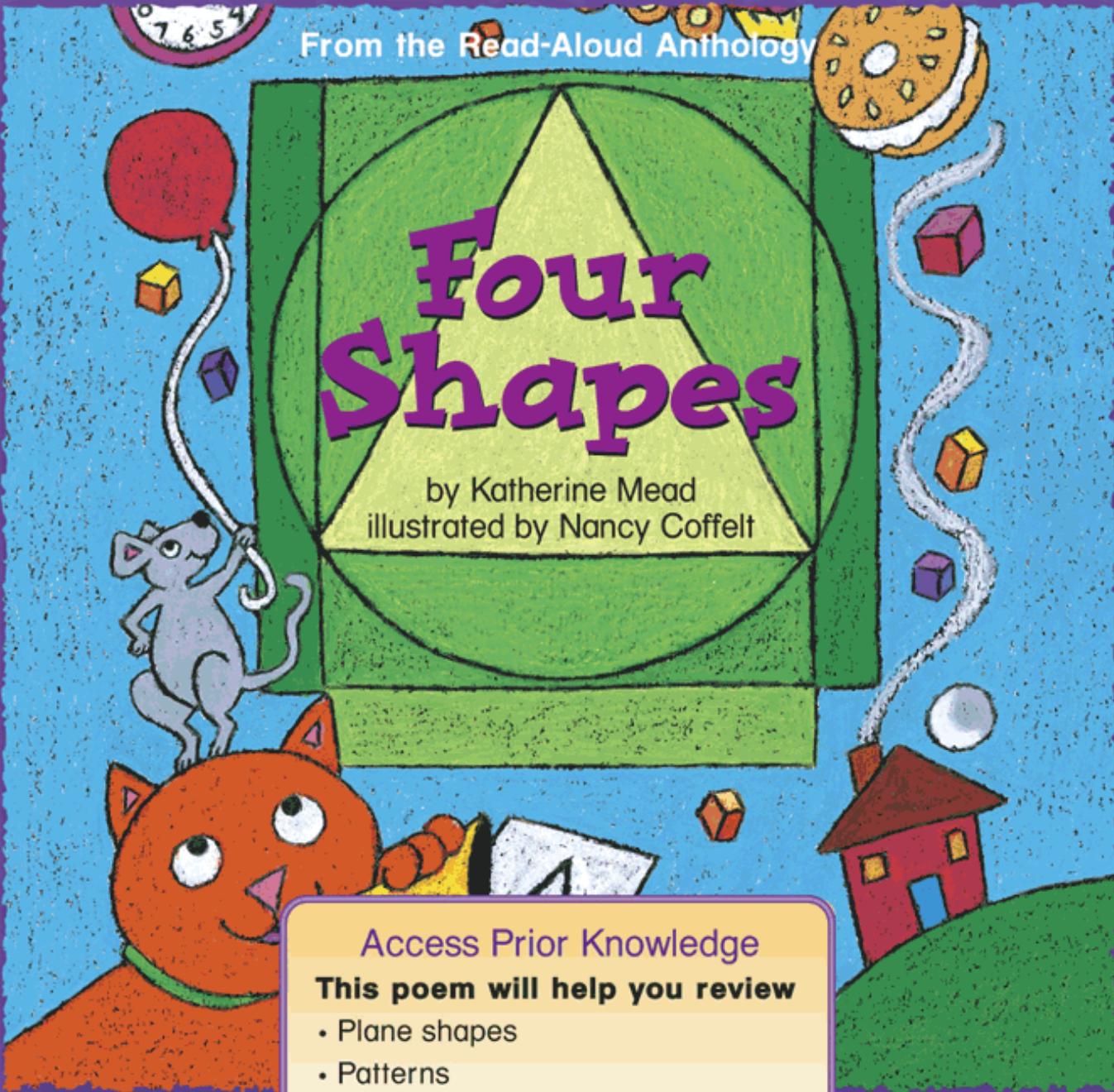
Four Shapes

by Katherine Mead
illustrated by Nancy Coffelt

Access Prior Knowledge

This poem will help you review

- Plane shapes
- Patterns



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What is a circle?

A Harvest moon,
A fat balloon,
A dinner plate,
The bagel you ate.

The face of a clock,
Some chicken pox,
A tiny gold ring,
Your mouth when you sing.

What is a rectangle?

A tall wooden door,
The boards on the floor,
A sign on the street,
A block of concrete.

One car of a train,
A window pane,
A box for a shoe,
A picture of you.





What is a triangle?

The roof of a house,
The ear of a mouse,
The top of an A
When you print a neat way.

The nose of a cat,
An old soldier's hat,
An instrument made
For a rhythm parade.



What is a square?

Some buttons on coats,
Some cards and some notes,
A picture frame,
A place for a name.

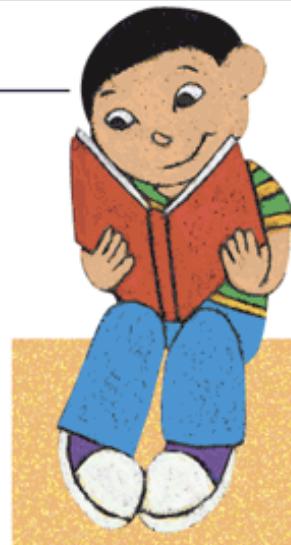
One side of a box,
The shape of some blocks,
A part of a door,
The tiles on the floor.



Name _____

Solve.

1. The poem tells about many things that are the shape of circles, rectangles, and triangles. Draw a pattern using all three shapes.



2. What things do you have at home that have the same shape as a circle, a triangle, and a rectangle? Draw an item for each shape.

Circle	Triangle	Rectangle
--------	----------	-----------

Complete the sentence.

3. A triangle has _____ sides.

4. A rectangle has _____ sides.

5. **Create Your Own** Draw a picture using triangles, circles, and rectangles.

--

MATH at Home

Dear Family,



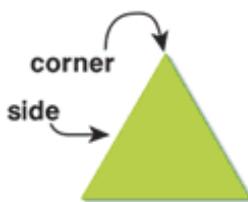
My class is starting Unit 3. I will be learning about geometry and fractions. These pages show what I will learn and have activities for us to do together.

From, _____

Vocabulary

These are some words I will use in this unit.

side The straight part of a shape



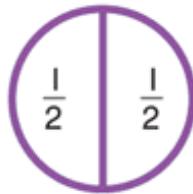
corner The point where sides meet

symmetry If a figure can be folded in half and the two parts match, it has symmetry.

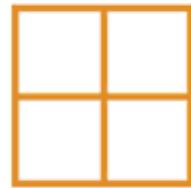


fraction A fraction names part of a whole.

$\frac{1}{2}$ names each part of this circle.



equal parts Parts that are the same size



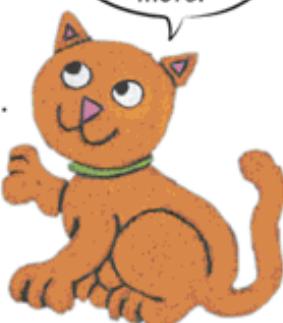
Some other words I may use are **halves**, **thirds**, **fourths**, and the names for plane and solid shapes.

Vocabulary Activity

Let's work together to complete these sentences.

1. A folded figure with two parts that match has _____.
2. Parts that are the same size are called _____.
3. A _____ is where the sides meet.

Turn the page for more.



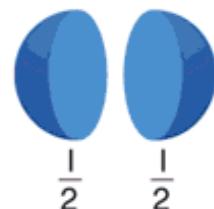
How To show equal parts and fractions



This is an example of what I will be learning.

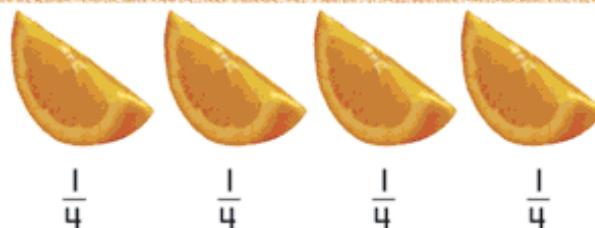
If a sphere is cut into 2 equal parts, each part is $\frac{1}{2}$ (one half) of the whole sphere.

One half ($\frac{1}{2}$) is a fraction of the whole sphere.



If an orange is divided into 4 equal parts, each part is $\frac{1}{4}$ (one fourth) of the whole orange.

One fourth ($\frac{1}{4}$) is a fraction of the whole orange.



If a paper is folded into 3 equal parts, each part is $\frac{1}{3}$ of the whole paper.

One third ($\frac{1}{3}$) is a fraction of the whole paper.

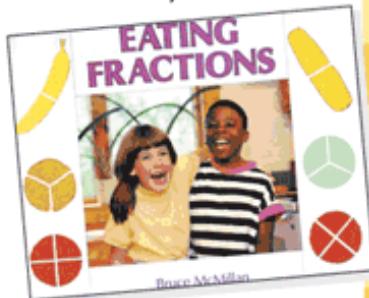


$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$

Literature

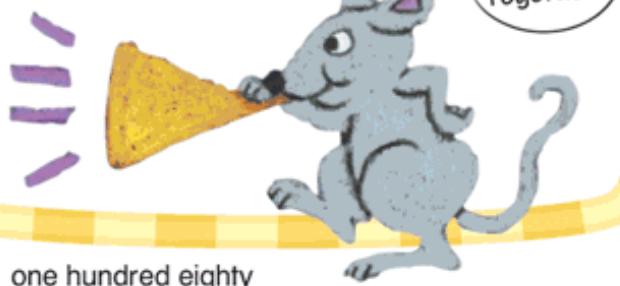
These books link to the math in this unit.
We can look for them at the library.

Eating Fractions
by Bruce McMillan
(Scholastic Trade,
1991)



Let's Fly a Kite
by Stuart Murphy

The Doorbell Rang
by Pat Hutchins



Education Place

We can visit *Education Place* at
eduplace.com/maf
for the Math Lingo game,
e-Glossary, and more games
and activities to do together.

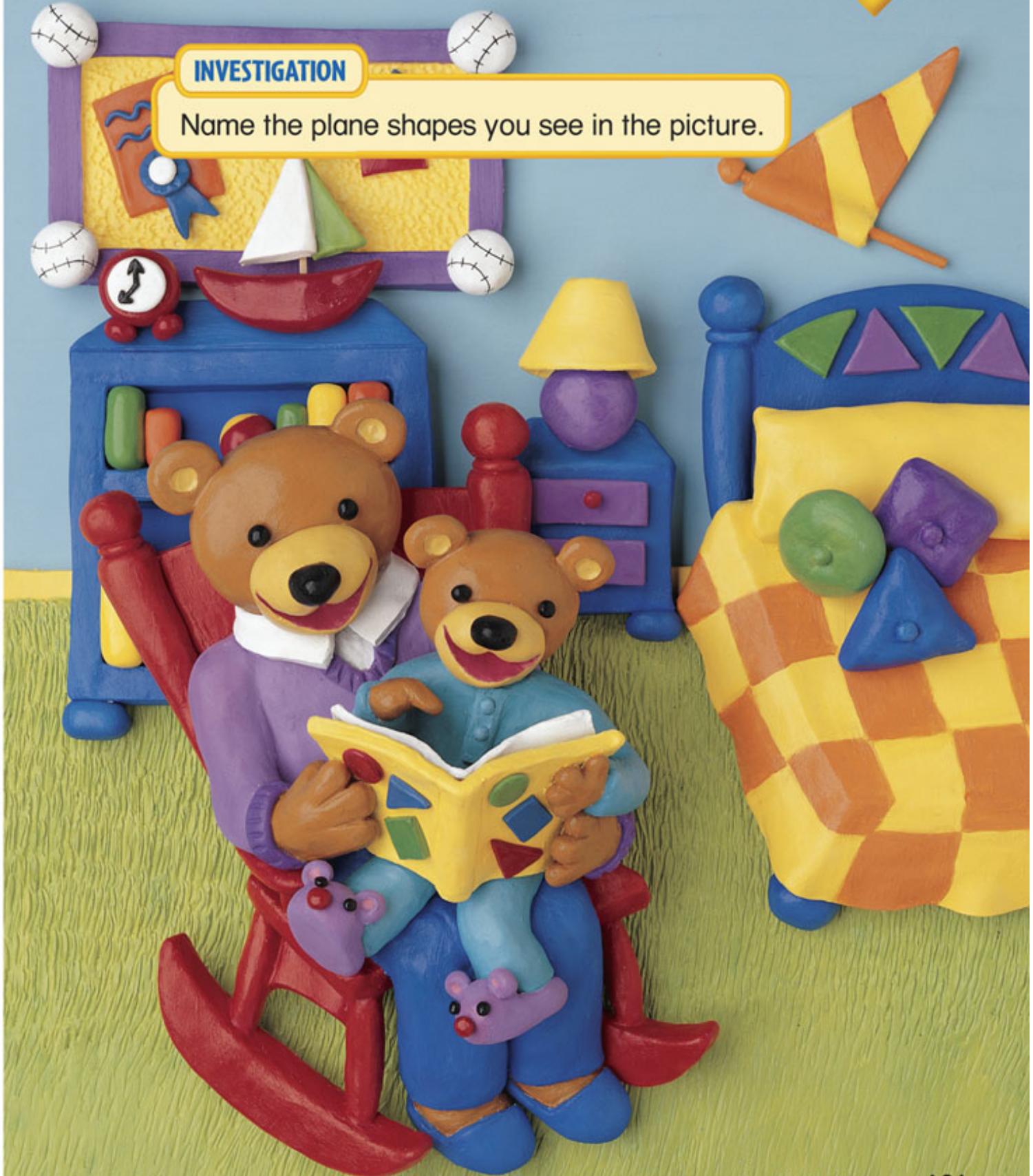


Plane and Solid Shapes

CHAPTER
7

INVESTIGATION

Name the plane shapes you see in the picture.



✓ Toy Shelf

Listen to your teacher.



Name _____

Classifying and Sorting Objects

There are different ways to sort objects.

The shirts in each group are alike in one way.

color



shape



size



Guided Practice

Circle one way the objects are alike.

1.



Think

The color and shape are different.

color

size

shape



2.



color

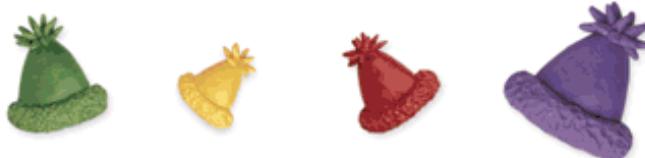
size

shape

Tell how the hats are alike.

Write color, size, or shape.

3.



Explain Your Thinking Describe how the objects in Exercise 3 are different.

Objective

Classify, sort, and compare objects by one attribute.

Practice

Remember
to look at all the
objects in a group.

Tell how the objects are alike.

Write color, size, or shape.

1.



color _____

2.



Use the shapes in this box.

Find the one that belongs
in the group. Draw it.



3.



4.

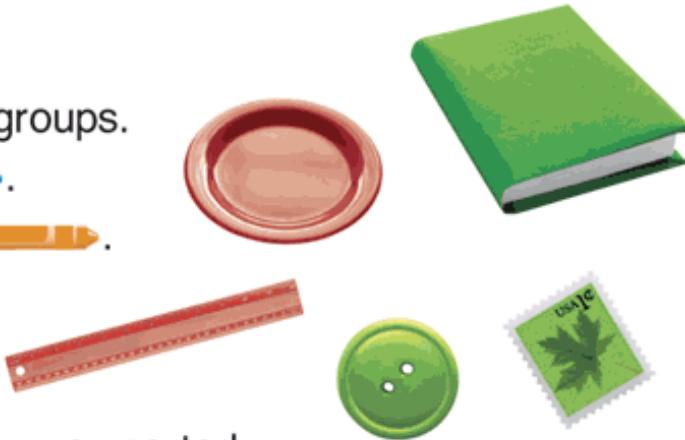


Problem Solving ➤ Reasoning

5. Sort the objects into two groups.

Circle one group .

Circle the other group .



6. **Talk About It** Explain how you sorted.



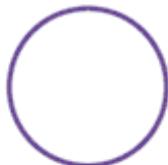
Name _____

Plane Shapes

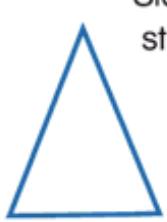


Audio Tutor 1/22 Listen and Understand

Some plane shapes have **sides** and **corners**.



circle



triangle

Sides are straight.



rectangle



square



Guided Practice

Trace the shape.

Write the number of sides and corners.



1. rectangle



Think
I count 4 places
where the sides meet.

_____ sides

_____ corners

2. square



_____ sides

_____ corners

3. triangle



_____ sides

_____ corners

4. circle



_____ sides

_____ corners

Explain Your Thinking Compare the number of corners and the number of sides for each shape. Describe what you see.

Objective

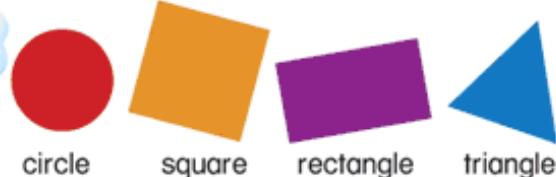
Identify, describe, and compare attributes of plane shapes.

Vocabulary

side corner
names for plane shapes

Practice

Remember the shapes.

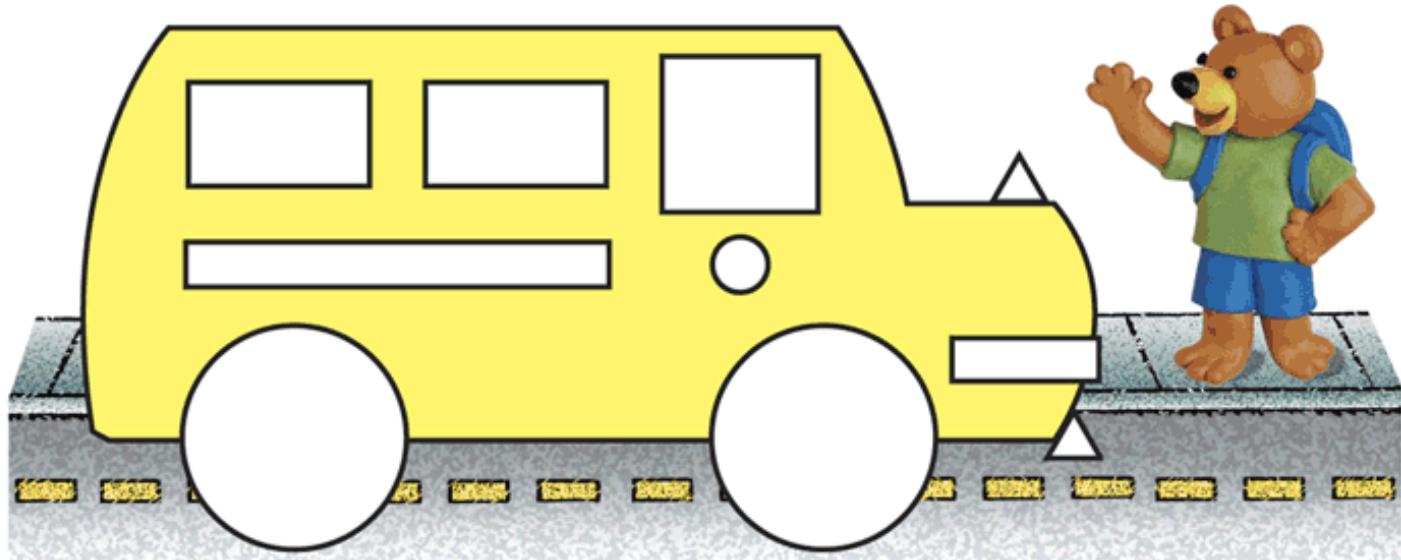


Answer the question.

Color the shapes on the bus.

1. How many shapes have 0 sides? 3
Color the circles 

2. How many shapes have 3 sides?
Color the triangles 



3. How many shapes have 4 sides the same?
Color the squares 

4. What do we call the shapes that are not colored?

Color them 

Reading Math Vocabulary

Draw the shape to match the word.

5. circle square triangle rectangle



Name _____

Classifying and Sorting Shapes

There are many ways to sort shapes.

Objective

Classify and sort plane shapes.

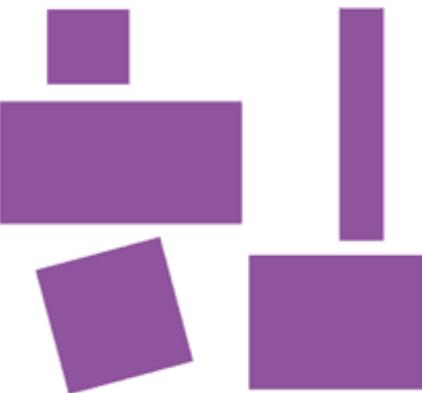
Shapes with corners



Shapes with 3 sides



Shapes with 4 corners



Guided Practice

Read the sorting rule.

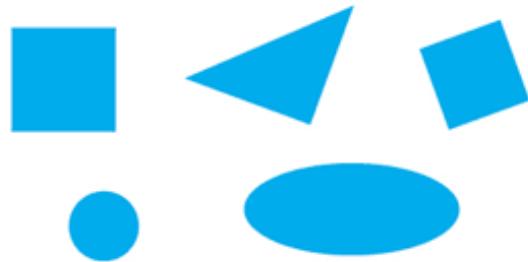
Circle the shapes that follow the rule.

1. 4 corners



Think
Corners are where the sides meet.

2. 4 sides the same



3. More than 3 sides



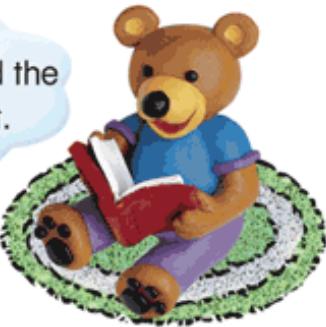
4. No corners



Explain Your Thinking How could you sort the shapes in Exercise 4 another way?

Practice

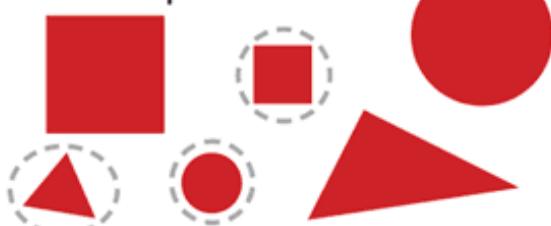
Remember to read the sorting rule first.



Read the sorting rule.

Circle the shapes that follow the rule.

1. Small shapes



2. No corners



3. 3 corners



4. More than 2 sides



Write a sorting rule.

Draw 3 shapes that follow your rule.

5.

Problem Solving ➔ Visual Thinking

VON
open figures


closed figures

Circle each open figure.

Color inside each closed figure.

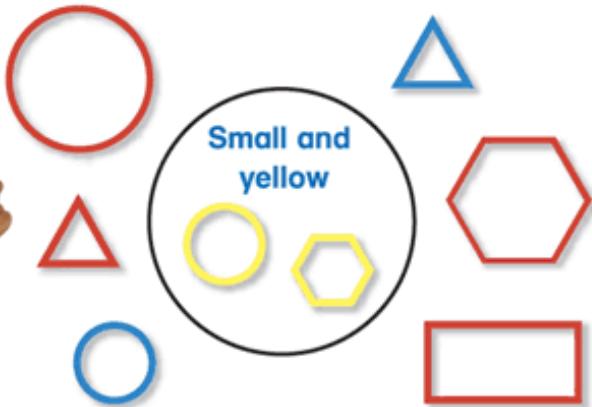
6.



Name _____

Now Try This **Sort by Two Attributes**

Sometimes we use more than one sorting rule to make a set.



Circle the figure that follows the rule.

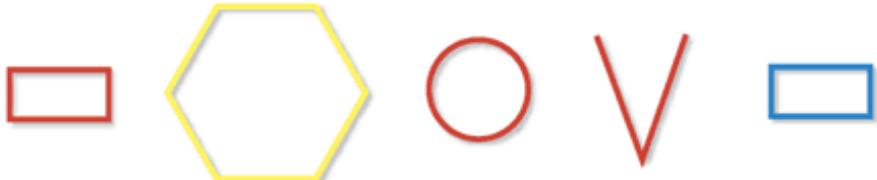
1. Big and yellow



2. Round and blue

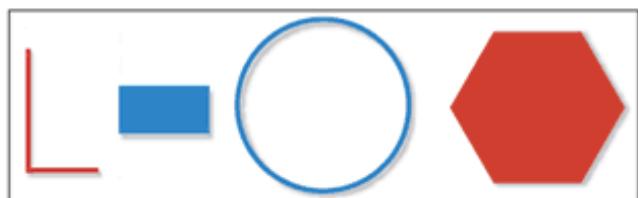


3. Open and red



Use the figures in the box.

Find and draw the figure that follows the rule.



4. Small and blue

5. Closed and red

6. **Talk About It** How did you choose figures for Exercises 4 and 5?

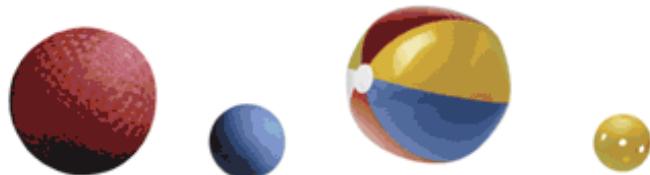


Quick Check

Tell how the balls are alike.

Write color, size, or shape.

1.



Color: _____

Size: _____

Trace the shape.

Write how many sides and corners.

2. rectangle



_____ sides

_____ corners

3. triangle



_____ sides

_____ corners

Read the sorting rule.

Circle the shapes that follow the rule.

4. No corners



Circle the figure that follows the rule.

5. Small and red



Name _____

Activity: Solid Shapes



Audio Tutor 1/23 Listen and Understand

Solid shapes have special names.



cube



cone



cylinder



rectangular prism



pyramid



sphere

Objective

Identify, describe, and compare solid shapes.

Vocabulary

names for solid shapes
face edge corner

Hands-On



Work Together

Find how each solid can move.

Complete the table.

	Slide	Stack	Roll
1.		yes	no
2.			
3.			
4.			
5.			

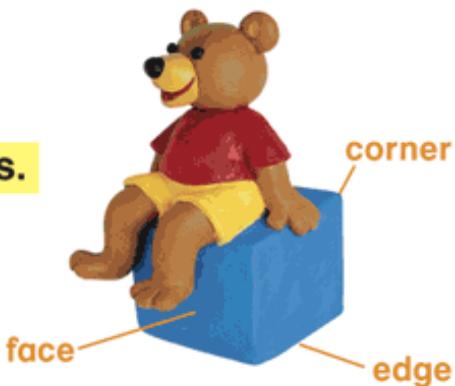
5. Talk About It Use the words **round**, **flat**, **curved**, and **straight** to describe the shapes you used.

Work Together

Some solids have **faces**, **edges**, and **corners**.

Work with a partner to complete the table.

Use solid shapes. Start with a cube.



Name of Solid	Number of Faces	Number of Edges	Number of Corners
1. cube	6	12	8
2. rectangular prism			
3. pyramid			
4. sphere			

On Your Own

Circle the solid that matches.

5. 1 face



Use your shapes to help you.

6. 12 edges



7. 8 corners



8. **Talk About It** Tell how a pyramid and a cube are alike and different.



Name _____

Classifying and Sorting Solid Shapes

There are many ways to sort solid shapes.

Objective

Classify and sort solid shapes.

6 faces



Curved parts



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8 corners



Guided Practice

Read the sorting rule.

Circle the solid shapes that follow the rule.

1. All faces



Think
The cup and
cone have curved parts.



2. Roll



3. Has edges



Explain Your Thinking Tell how the solid shapes in Exercise 2 are alike and different.

Practice

cube



rectangle



rectangular prism



circle



cone



cylinder



sphere



triangle



pyramid



square



Use the sorting rule to sort the shapes.

Draw the shape or write the name.

1.

Plane Shapes

circle

2.

Solid Shapes

cube

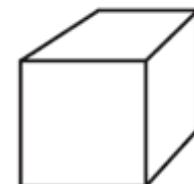
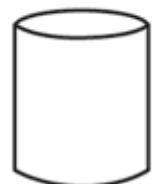
Problem Solving ➤ Reasoning

3. Sort the solid shapes into two groups.

Color one group .

Color one group .

Explain your sorting rule.



Name _____

Identify Faces of a Solid Shape

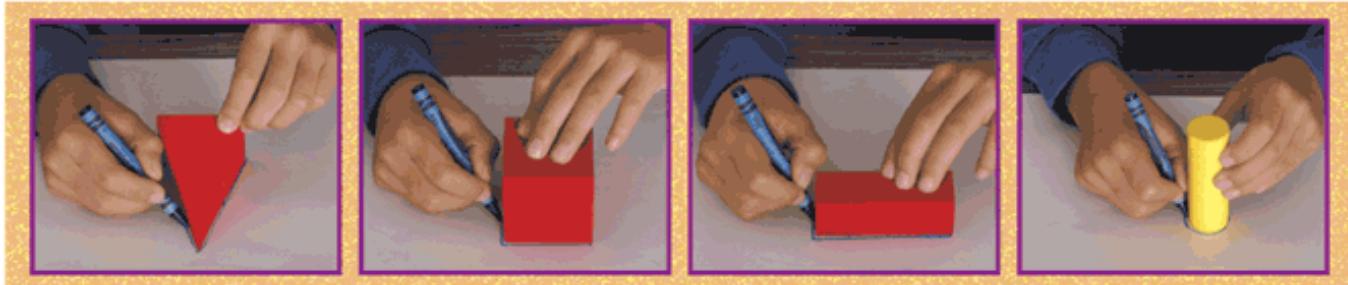


Audio Tutor 1/24 Listen and Understand

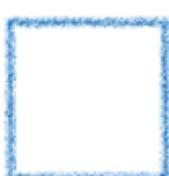
Objective

Identify the faces of a solid shape.

The face of a solid is a plane shape.



triangle



square



rectangle



circle

Guided Practice

Look at the blue face of the solid shape.

Circle the shape of the face.



1.



square

circle

triangle

2.



square

circle

triangle

3.



rectangle

circle

triangle

4.



square

circle

triangle

Explain Your Thinking Tell how a cylinder and a cone are alike and different.

Practice

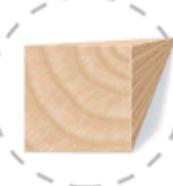
Look at the plane shape.

Circle the solid with a face like it.

Remember
to look at all of the
faces of the solids.



1.



2.



3.



4.



Problem Solving ➤ Reasoning

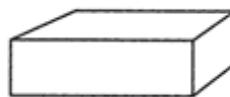
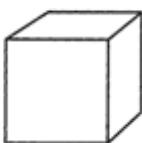
Look at the plane shapes on each solid.

Use the plane shapes to sort the solids into two groups.

Color one group .

Color the other group .

5.



6. **Write About It** Explain your sorting rule.



Name _____

Objective

Draw pictures to solve problems.

Draw a Picture

Audio Tutor 1 / 25 Listen and Understand

Jane is making a picture of a boat.

She uses these shapes.



How can she make a boat?

**UNDERSTAND****What do you know?**

- Jane is making a boat.
- She uses these shapes.

PLAN**You can draw a picture.**

Try different ways to use the shapes.

**SOLVE**

Draw a picture of a boat.
Use the three shapes.

**LOOK BACK**

Does your answer solve the problem?
What helped you decide how to use the shapes?

Guided Practice

Remember:

- Understand
- Plan
- Solve
- Look Back

Draw a picture to solve.

1. Nico wants to make a picture of a house. He uses these shapes.



How can he make a house?

Think

I start by thinking about the shape of a whole house.

2. Millie wants to make 2 triangles from this piece of paper.

Draw a line to show how she can do it.



Think

A triangle has 3 sides and 3 corners.

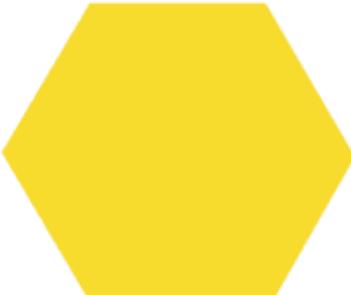
Practice

3. Don wants to make a picture of a rocket. He uses these shapes.



How can he make a rocket?

4. Tarika wants to make 6 triangles from this shape. Draw lines to show how she can do it.



Name _____

Mixed Problem Solving

Strategies

Draw a Picture

Act It Out With Models

Write a Number Sentence

Solve.

1. How can Matt make 4 triangles from this piece of ceramic tile?

Draw or write to explain.



ceramic tile

2. Sergio uses papier mâché to make 5 trees. Jill makes 4 trees. How many trees do they both make?

_____ trees



papier mâché

3. Andy makes 6 sculptures. He gives 2 sculptures to his sister. How many sculptures does he have left?

_____ sculptures



sculptures

4. **Multistep** Tony makes 3 blue origami birds. Rose makes 7 red origami birds. They tape 6 of the birds to the window. How many birds are not taped to the window?

_____ birds



origami bird



At Home Cut out a square. Ask your child to cut it to make 2 new shapes and identify the new shapes.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

1. Rosa makes this picture of a boat. How many triangles are in the picture?

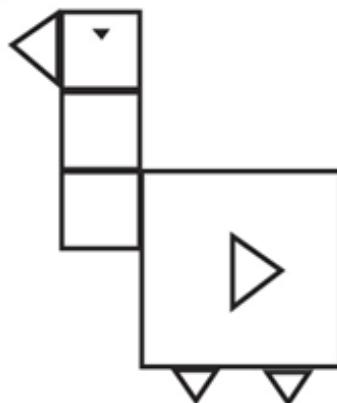


Show your work using pictures, numbers, or words.

_____ triangles

2. Jared makes this picture of a bird.

What two shapes does he use to make his picture?



Multiple Choice

Listen to your teacher read the problem.

Choose the correct answer.

3.

1	2	3	4
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4.

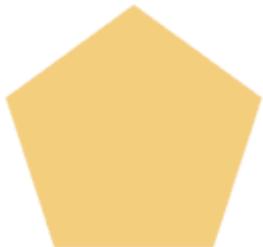
1	2	3	4
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



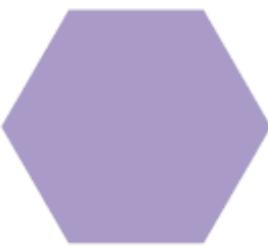
Name _____

Now Try This Pentagons and Hexagons

These plane shapes have sides and corners.



pentagon



hexagon



Trace the shape.

Write the number of sides and corners.

1. hexagon



_____ sides

_____ corners

2. pentagon



_____ sides

_____ corners

Draw the shape to match the word.

3.

pentagon

hexagon

Activity

Social Studies Connection Keys

People have been using keys for a long time. Keys are used to keep things safe. They come in many shapes and sizes.

Circle one way the keys are the same.

color

size

shape

Talk About It What do you think the key at the top could open?



WEEKLY WR READER eduplace.com/map

Key Topic Review

Subtraction Through 10

Write the difference.

1. $10 - 4 =$ _____ 2. $9 - 2 =$ _____ 3. $7 - 5 =$ _____

4. $8 - 4 =$ _____ 5. $9 - 6 =$ _____ 6. $8 - 5 =$ _____

7. $10 - 7 =$ _____ 8. $7 - 2 =$ _____ 9. $9 - 5 =$ _____

10. $\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$ 11. $\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$ 12. $\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$ 13. $\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$ 14. $\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$ 15. $\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$

**Vocabulary**

Draw the shape to match the word.

1. rectangle

2. square

3. circle

4. triangle

**Concepts and Skills**

Circle one way the objects are alike.

5.



color

size

shape

Trace the shape.

Write the number of sides and corners.

6. rectangle



_____ sides

_____ corners

7. circle



_____ sides

_____ corners

Read the sorting rule.

Circle the shapes that follow the rule.

8. 3 corners



9. No corners





Chapter Review/Test

Circle the solid that matches.

10. 2 faces



Read the sorting rule.

Circle the solid shapes that follow the rule.

11. Roll



12. All faces



Look at the blue face of the solid shape.

Circle the shape of the face.

13.



square

circle

triangle

14.



square

circle

triangle

Problem Solving

Draw a picture to solve.

15. Isabel wants to make 3 triangles from this shape. Draw lines to show how she can do it.

Draw or write to explain.

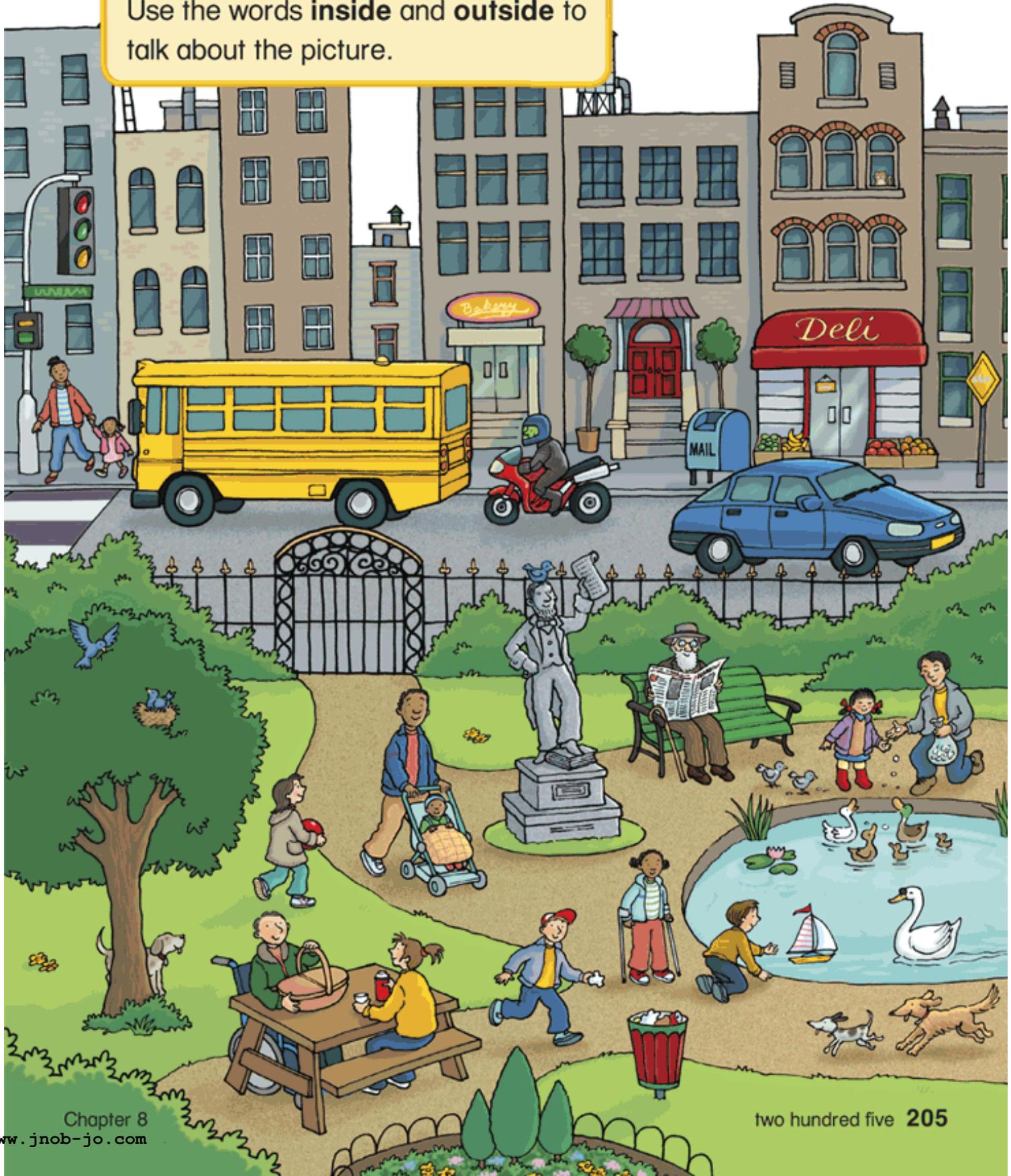


Spatial Sense and Patterns

CHAPTER
8

INVESTIGATION

Use the words **inside** and **outside** to talk about the picture.



You will learn about grids in this chapter.
People who plan parks use grids.
Frederick Law Olmsted planned parks.



People Using Math

Frederick Law Olmsted



When Frederick Law Olmsted was a boy, he loved to be outdoors. He liked to see the wildflowers and hear the birds sing.

When Frederick went to cities, he did not see open spaces with grass and trees, or places to walk and play. He believed that everyone should have open spaces to visit.

Frederick decided to become a landscape architect, someone who plans parks. He helped create many beautiful places, like Central Park in New York City and the land around the Capitol building in Washington, D.C. His work as a park planner changed many cities.

Frederick Law Olmsted was in charge of planning Central Park until 1861. He had been in charge for 3 years. What year did he start?

Draw or write to explain.

Name _____

Position Words

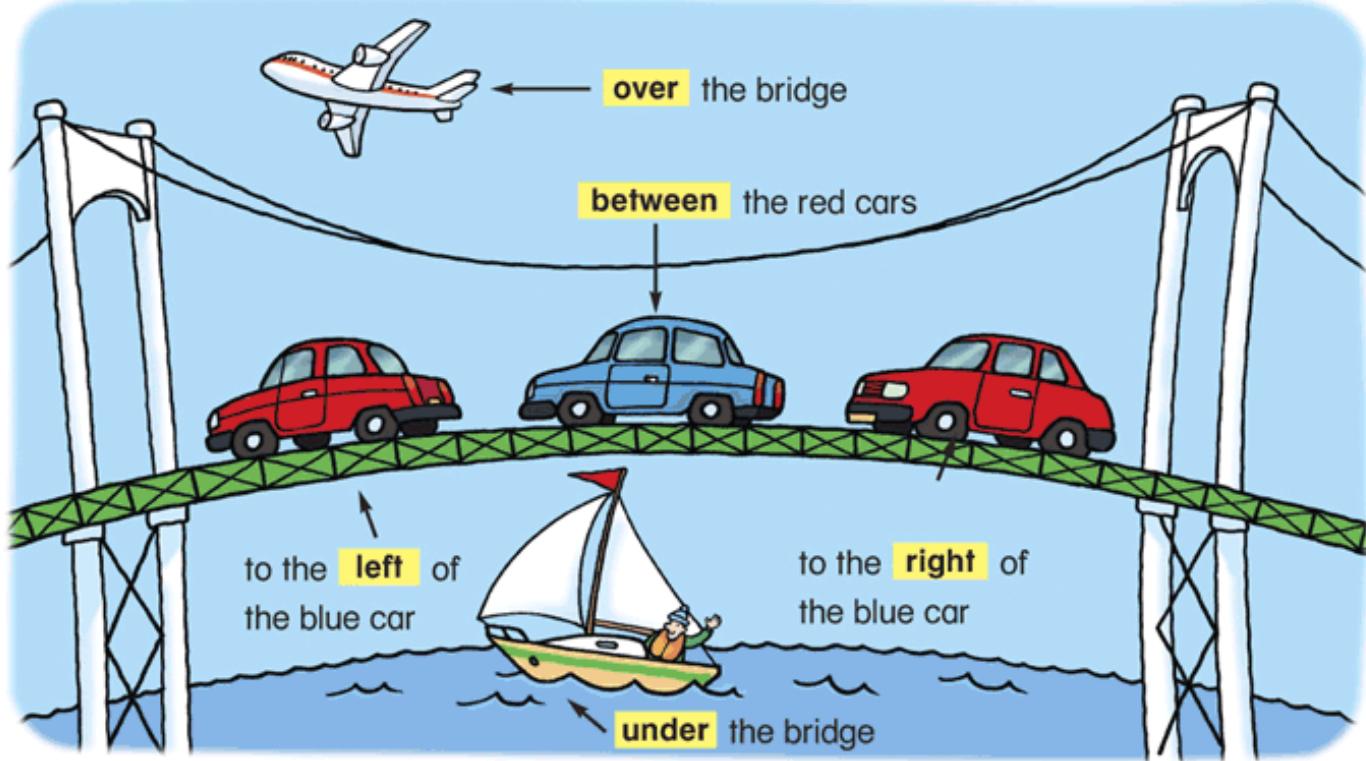
These words tell where objects are.

Objective

Give and follow directions about position and location of objects in space.

Vocabulary

position words



Guided Practice

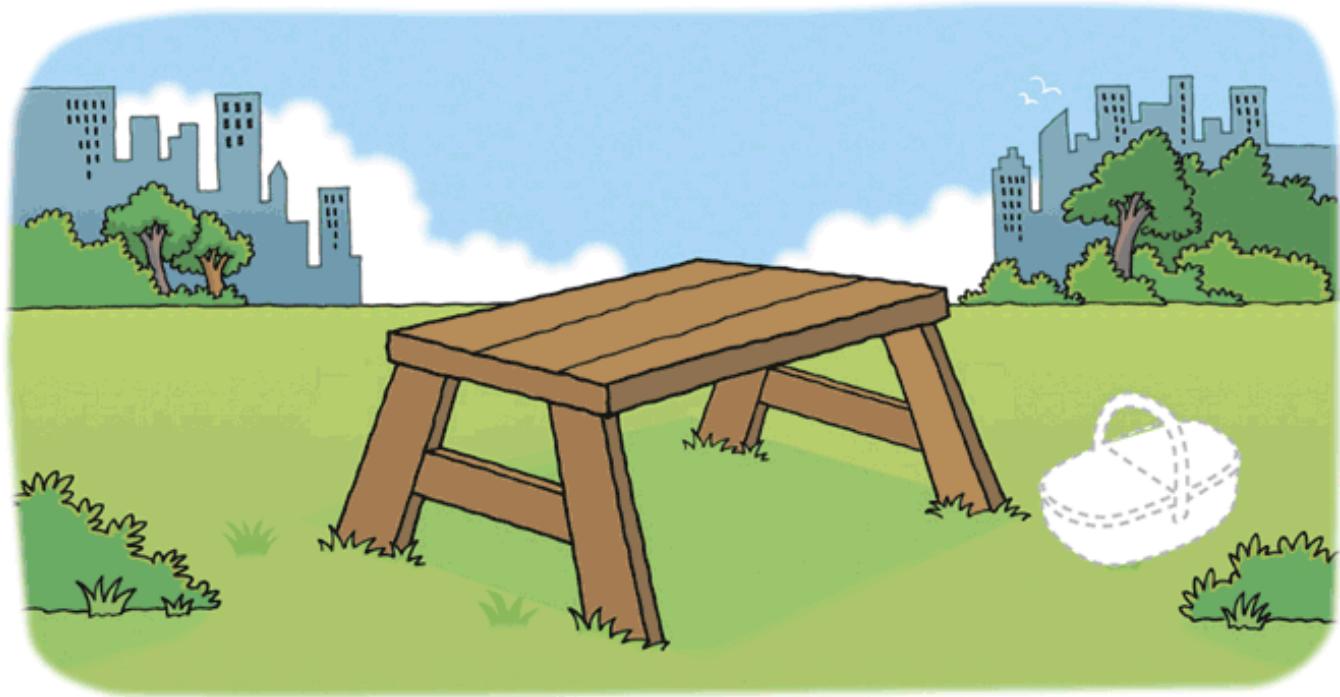
Listen. Follow the directions.

1.



Explain Your Thinking Tell how you know something is to the left or to the right of you.

Practice



Follow the directions.

Draw the object.

1. to the right of the

2. over the

3. under the

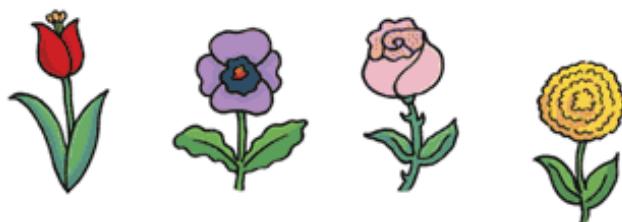
4. to the left of the

5. Circle the objects between the and the .

Problem Solving Logical Thinking

Use the clues to label each flower.

6. S is between B and N.
T is to the right of B.



— — — —



At Home Play "I Spy." Use the words **over**, **under**, **between**, **left**, and **right** to have your child locate things you describe.

Name _____

More Position Words

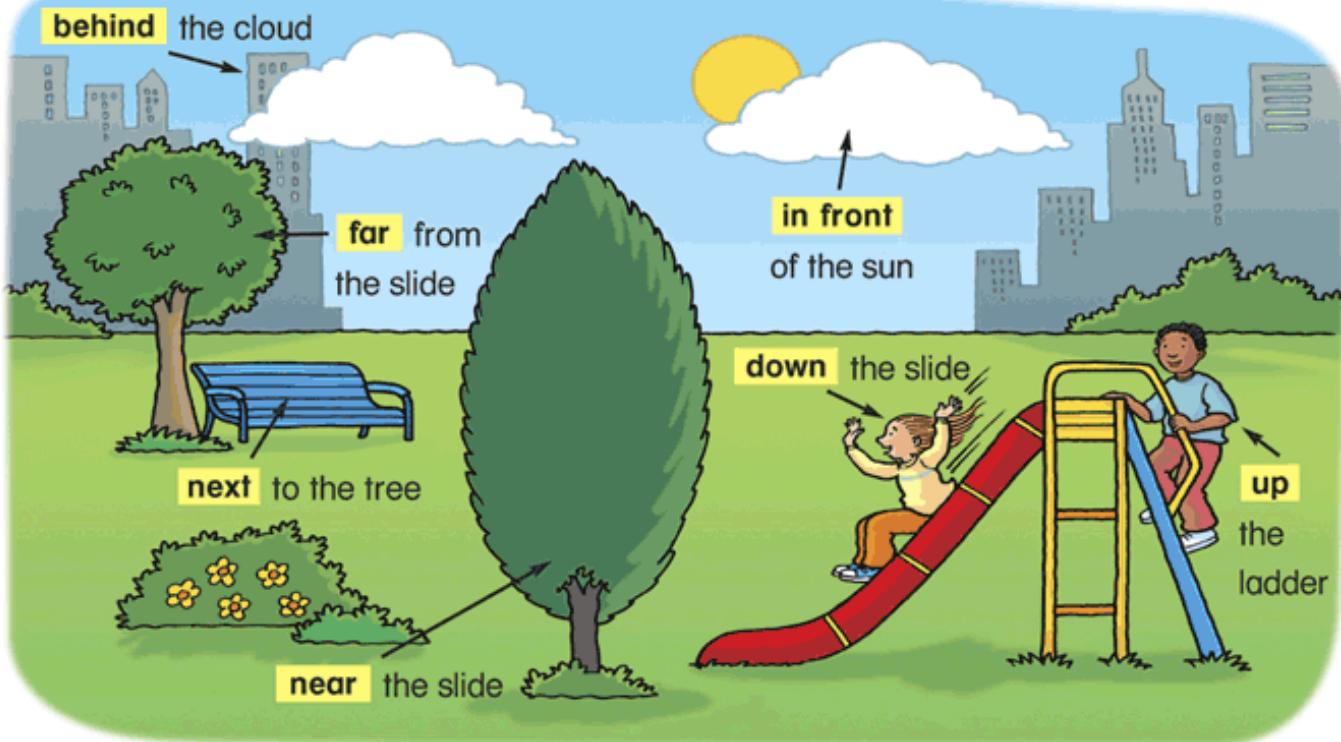
These words tell the location of objects.

Objective

Arrange and describe the location of objects.

Vocabulary

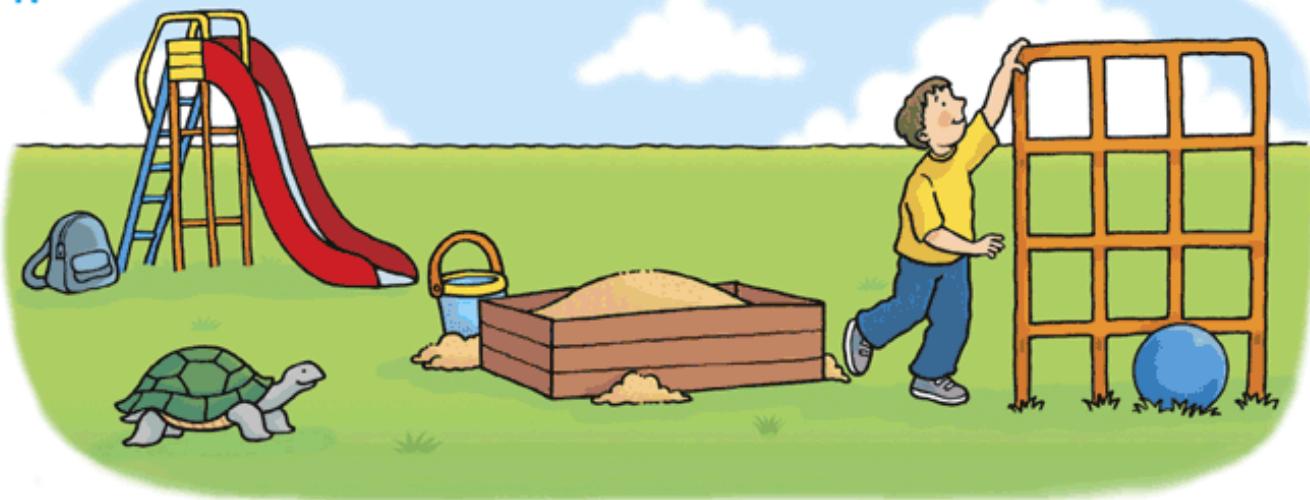
position words



Guided Practice

Listen. Follow the directions.

1.



Explain Your Thinking Use some words from this page.

Tell how to find your desk in the classroom.

Practice

Circle the answer that completes the sentence.

1.

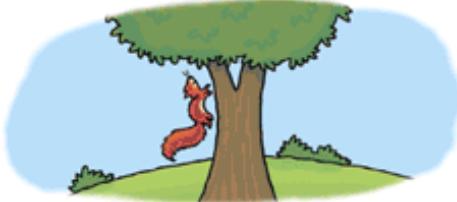


The is ____ the .

in front of

behind

2.



The goes ____ the .

up

down

3.



The is ____ the .

far from

near

4.



The is ____ the .

far from

next to

Reading Math Vocabulary

Use the word **above**, **below**, or **beside**.

Complete the sentence.

5. The rabbit is _____ the swing.



6. The butterfly is _____ the swing.

7. The flower is _____ the rabbit.

8. Draw a picture on another piece of paper. Use **above**, **below**, and **beside** to tell where things are.



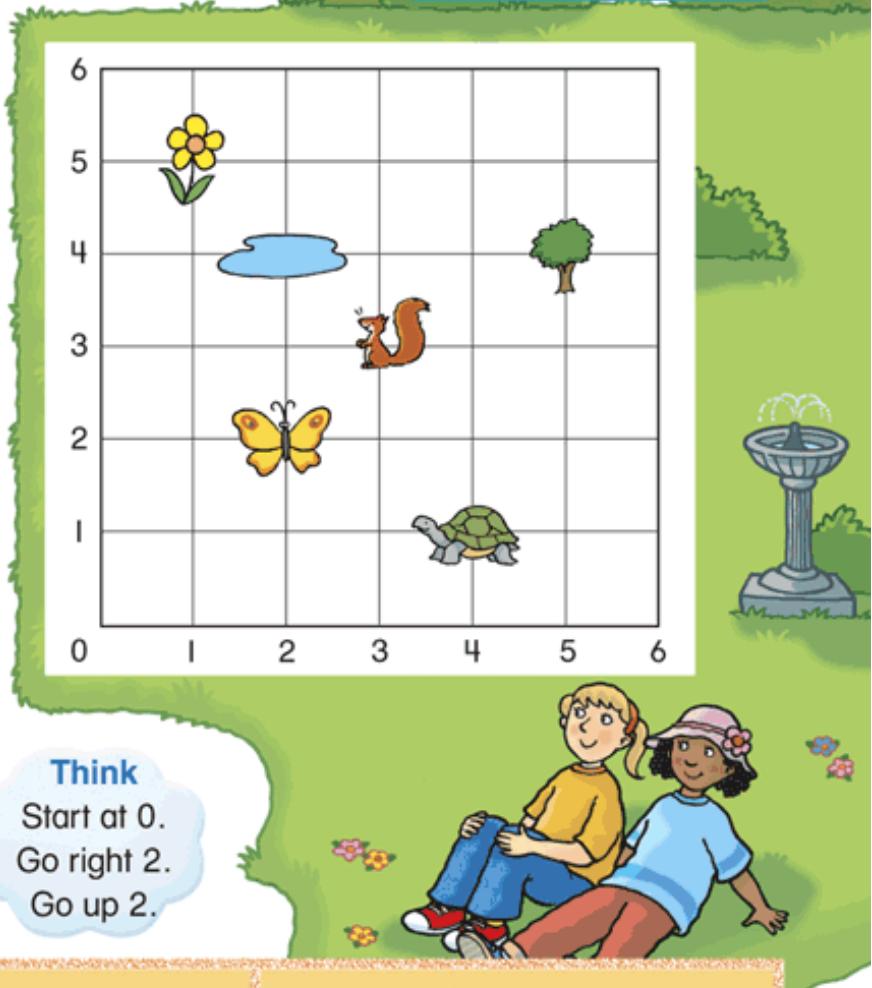
Name _____

Give and Follow Directions

This grid is like a map.
Follow directions to find
places in the park.

- Always start at 0.
- Go right 2 spaces.
- Then go up 4 spaces.

The  is at 2 right, 4 up.



Guided Practice

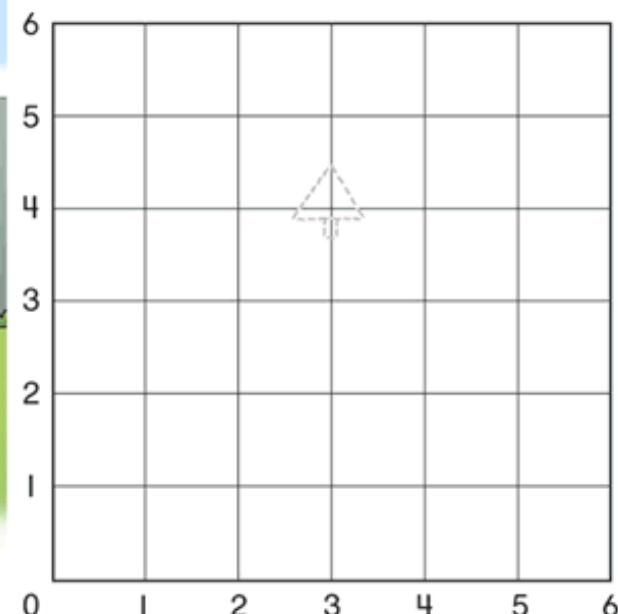
Follow the directions.
Circle to show what you find.

Think
Start at 0.
Go right 2.
Go up 2.

Go Right	Go Up	Circle
1. 2 spaces	2 spaces	 
2. 1 space	5 spaces	 
3. 4 spaces	1 space	 
4. 3 spaces	3 spaces	 

Explain Your Thinking Start at 0. Tell how to
find the tree on the grid.

Practice



Follow the directions.

Draw an object on the grid.

Go Right	Go Up	Draw	Remember to start at 0.
1. 3 spaces	4 spaces		
2. 1 space	2 spaces		
3. 4 spaces	5 spaces		
4. 5 spaces	3 spaces		

Problem Solving ► Spatial Sense

5. **Write About It** Look at the grid. Write your own directions. Tell how to get from to .

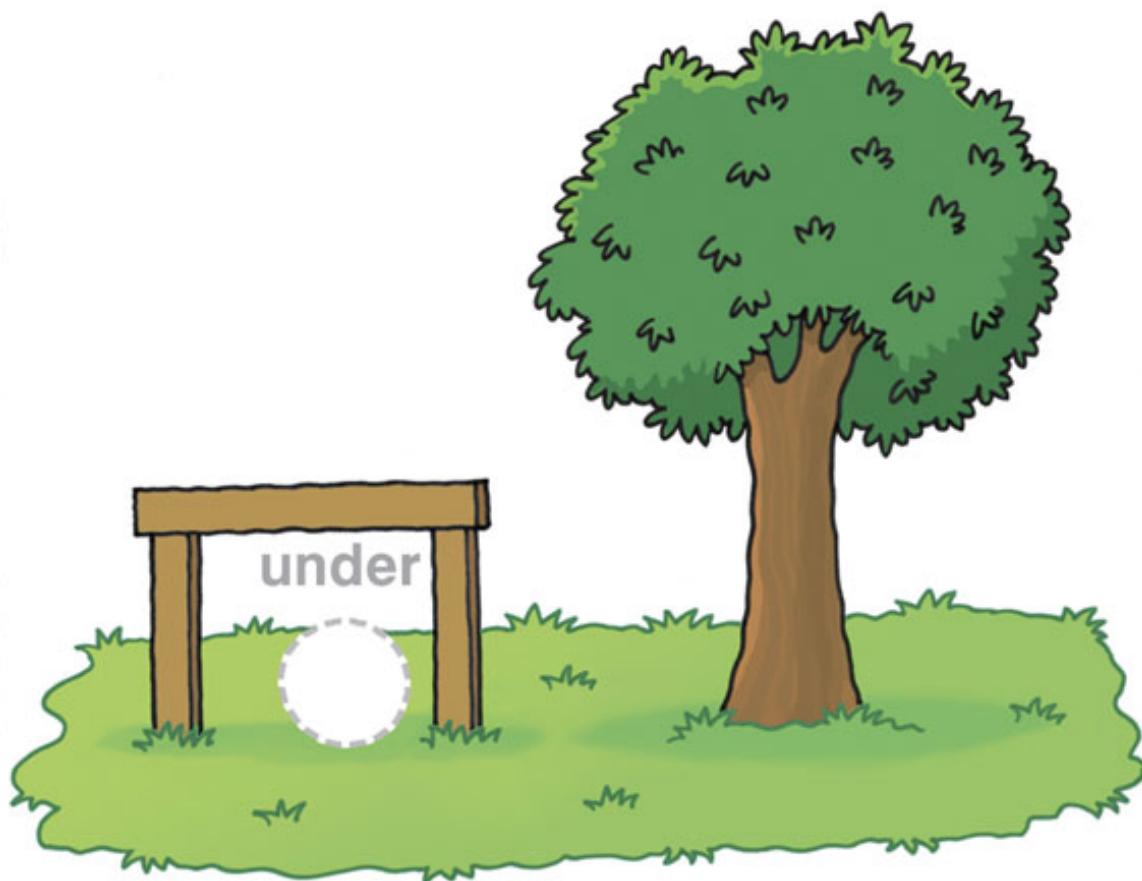


Writing Math: Create and Solve

Draw items in the picture to show these words.
Label the picture with the words.

in front
over
under

1.



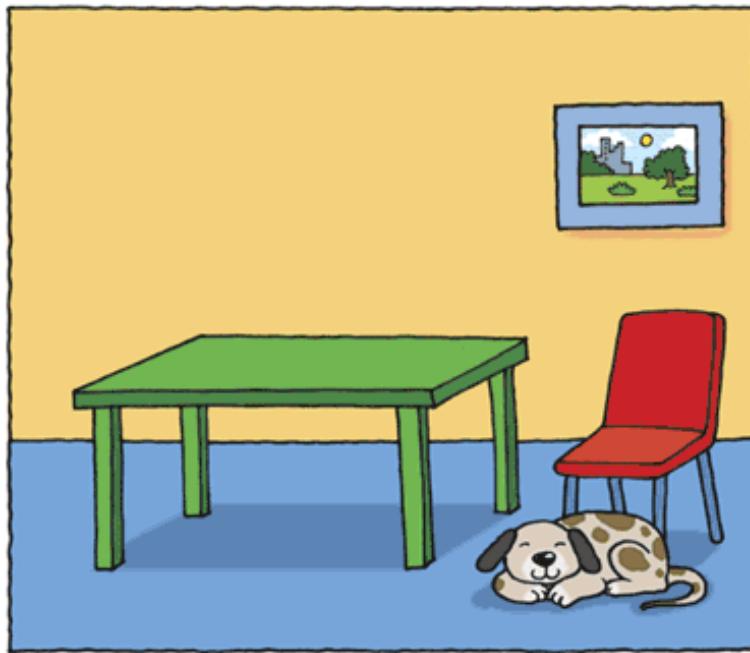
2. **Write About It** Tell where to draw a in your picture. Use a position word in your sentence.



Quick Check

Follow the directions.
Draw the object.

1. over the .



Circle the answer that completes the sentence.

2. The is _____ the .

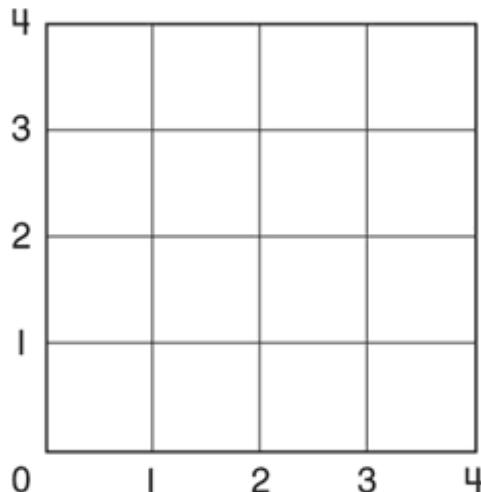
in front of

behind

Follow the directions.

Draw an object on the grid.

Go Right	Go Up	Draw
3 spaces	3 spaces	
1 space	2 spaces	
2 spaces	1 space	



Name _____

Activity: Slides, Flips, and Turns



Audio Tutor 1/26 Listen and Understand



Objective

Identify slides, flips, and turns of shapes.

Vocabulary

flip turn slide

Work Together

An object can be moved in different ways.

You can **flip** it, **turn** it, or **slide** it.

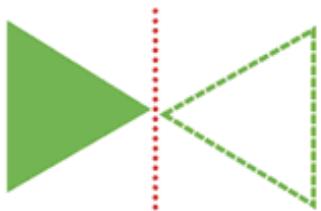
Work with a partner.

Use pattern blocks.

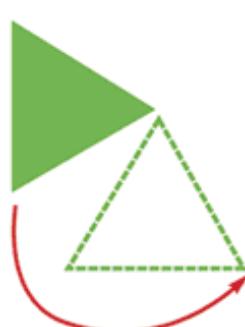
- Place the **►** on the first shape.
- Move it to the second shape.
- Trace to show the move.



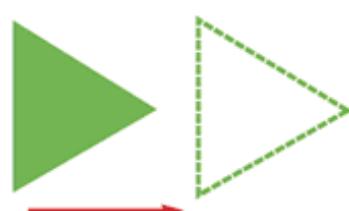
Flip **►** to cover **△**.



Turn **►** to cover **△**.



Slide **►** to cover **►**.



Put your block on the shape.

Pick up your block and flip it.

Then trace it.

1.



On Your Own

Put your block on the shape.
Pick up your block and flip it.
Then trace it.

1.



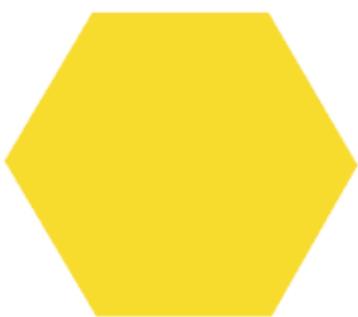
2.



3.



4.



Name _____



On Your Own

Put your block on the shape.
Turn your block. Then trace it.

5.



6.



7.



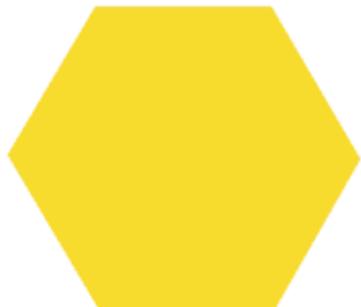
8.



On Your Own

Put your block on the shape.
Slide your block. Then trace it.

9.



10.



11.



12. **Write About It** What two moves made this picture?



_____ and _____



Name _____

Patterns



Audio Tutor 1/27 Listen and Understand

The shapes make a **pattern**.

The pattern is red, yellow, red, yellow, red, yellow.

Objective

Describe, predict, and extend a pattern.

Vocabulary

pattern

Hands-On



There is a circle, triangle, circle, triangle, circle, triangle pattern.



The pattern is also big, small, big, small, big, small.

Guided Practice

Use shapes to copy the pattern.

Circle the one that comes next.

1.



Think

Circle, hexagon, circle, hexagon . . .



2.



3.



Explain Your Thinking Tell about the patterns in Exercise 1 and Exercise 3. How are they different?

Practice

Sometimes
it helps to say the
pattern aloud.

Use shapes to copy the pattern.

Circle the one that comes next.

1.



2.



3.



4.

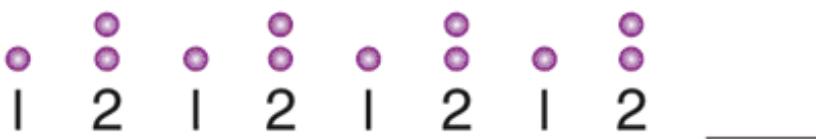


Problem Solving ► Number Sense

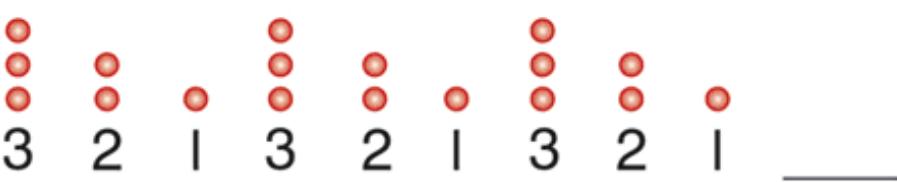
Use shapes to copy the pattern.

Write the number that comes next.

5.



6.



Name _____

Create Patterns

Kate made a pattern.



Yellow, red, blue is the pattern unit.

It repeats over and over.

Objective

Identify and create patterns.

Hands-On



Guided Practice

Use shapes to copy the pattern.

Circle the pattern unit.

Think

Circle, square, triangle repeats.



2.



Now use the shapes to make a pattern.

Draw the pattern.

Circle the pattern unit.

3.

4.

Explain Your Thinking How can you use sound to copy your pattern?

Practice

Make a pattern unit.

Then repeat it.

Use any shapes to make a pattern.

Draw the pattern.

1.



2.



3.



4. Make a number pattern. Have a friend tell what number might come next.

Algebra Readiness ► Patterns

Circle the pattern unit.

Draw the shape that comes next.

5.



6.



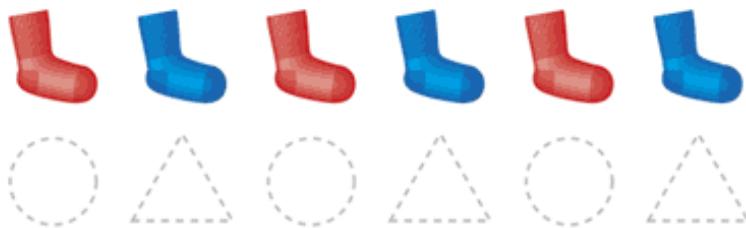
Name _____

Translate Patterns

There is more than one way to show the same kind of pattern.

Objective

Identify and translate patterns.



The socks make a color pattern. It is red, blue, red, blue, red, blue.

Guided Practice

Find the pattern.

Draw shapes to show it another way.

Think

This pattern has 3 things that repeat.



Explain Your Thinking Look at Exercise 2.

How do you decide how many shapes to draw?

Practice

Look for the unit that repeats.

Find the pattern.

Draw shapes to show it another way.



Algebra Readiness ➤ Patterns

4. Use words to tell about the pattern.



5. Now use your arms to show the same pattern.

6. **Talk About It** The arrows are a way to show the pattern. What else did we use to show the pattern?



Name _____

Symmetry



Audio Tutor 1/28 Listen and Understand

Some shapes have
symmetry.



2 matching parts

Some shapes do
not have symmetry.



no matching parts

Objective

Make and identify
symmetrical shapes
and lines of symmetry.

Vocabulary

symmetry
line of symmetry

Follow these steps to make a shape with symmetry.

Step 1



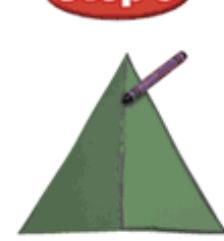
Fold a sheet of paper.
Draw a shape.

Step 2



Cut out the shape.
Open it.

Step 3



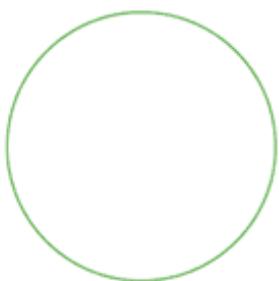
Draw a line on
the fold. This is a
line of symmetry.

Guided Practice

Listen to your teacher.

Draw a line of symmetry.

1.



Think
Fold the circle
down the middle.
Do the 2 parts
match?

2.



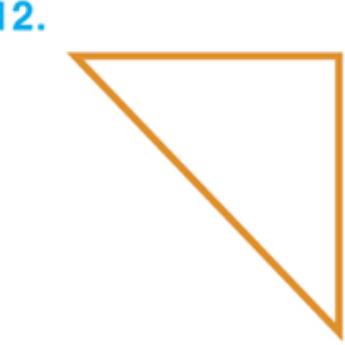
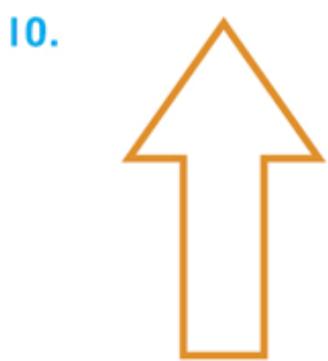
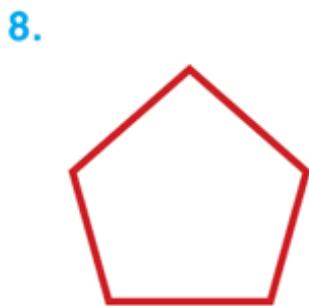
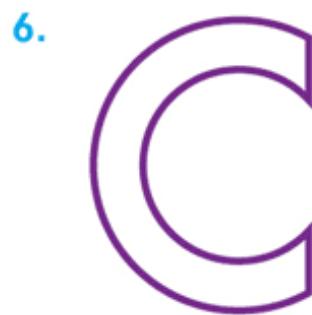
Explain Your Thinking How did you fold the square
to make matching parts? What new shape did you make?

Hands-On

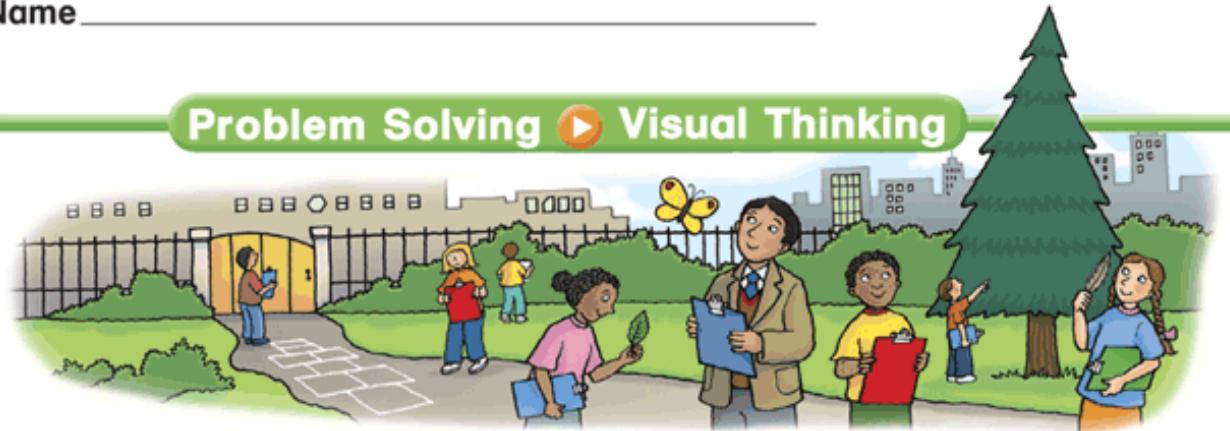
Practice

The 2 parts
must match.

Draw a line of symmetry.



Problem Solving ➔ Visual Thinking



Anna's class takes a walk around the school.
They look for objects with lines of symmetry.

Draw the line of symmetry.

Cross out objects that do not have a line of symmetry.

13. Anna sees a leaf.



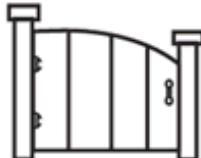
14. Alba finds a feather.



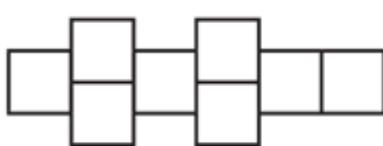
15. Mr. Lai sees a butterfly.



16. Henri sees a gate.



17. Emma sees a game.



18. Max sees a tree.



19. Lin sees a window.



20. Lois also sees a window.



At Home Take a walk and ask your child to identify objects that have lines of symmetry.

Now Try This **Same Size, Same Shape**

Some objects are the same size and shape.

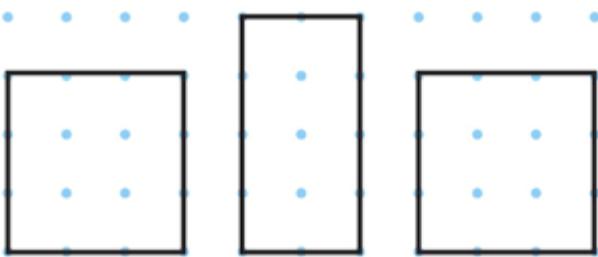


Color the shapes that are the same size and shape.

1.



2.



Draw a shape that is the same size and shape.

3.

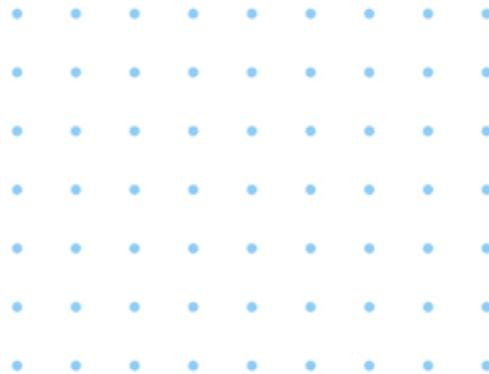


Objects that are the same shape but different sizes are similar.

Have a classmate draw a shape.

Now draw a shape that is similar.

4.



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Name _____

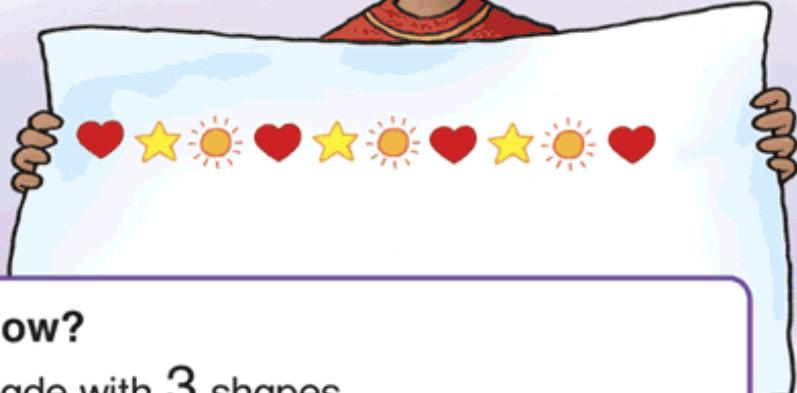
Find a Pattern

Ms. Powers is making this quilt.
You can see the pattern.
What comes next in the pattern?

Objective

Use patterns to solve problems.

Problem Solving



UNDERSTAND

What do you know?

- The pattern is made with 3 shapes.
- The pattern unit repeats.

PLAN

What is the pattern unit?

You can write the pattern unit with words.



heart

star

sun

SOLVE

Circle the one that comes next.



LOOK BACK

Say the pattern.

Does the shape you picked fit the pattern?

Guided Practice

Remember:

- Understand
- Plan
- Solve
- Look Back

Find the pattern to solve.

I. Anita puts this pattern on a shirt.
Circle the shape that comes next.

Think



2. Brian sees this pattern on a belt. Put an X on the shape that is wrong in the pattern. Draw the correct shape above the X.

Think

The pattern unit
is circle, circle,
triangle.



Practice

3. Jin is putting this pattern on a blanket.
Circle the shape that comes next in the pattern.



4. Monica sees this pattern on a ribbon. Put an X on the shape that is wrong in the pattern. Draw the correct shape above the X.



Name _____

Strategies

Find a Pattern

Draw a Picture

Act It Out With Models

Write a Number Sentence

Mixed Problem Solving

Solve.

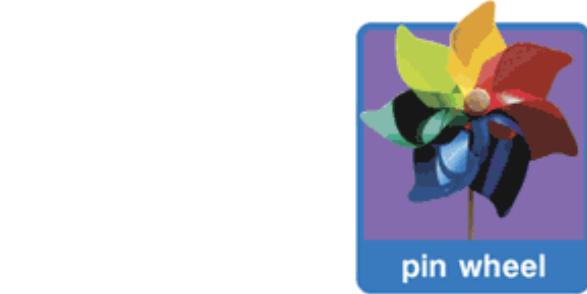
1. Nina makes this pattern on leather. Put an X on the shape that is wrong.
Draw the correct shape above the X.

Draw or write to explain.



leather

2. Shani makes 3 pin wheels. Jesse makes 4 pin wheels. How many pin wheels do they make in all?



pin wheel

_____ pin wheels

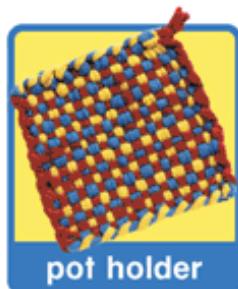
3. Joan makes a banner. The pattern she makes uses 5 triangles and 5 squares. How many shapes are in her pattern?



banner

_____ shapes

4. **Multistep** Dan makes 4 pot holders. Carmen takes 2 pot holders. Then she gives 1 back. How many pot holders does Dan have now?



pot holder

_____ pot holders



At Home Use 3 shapes to draw a repeating pattern.

Ask your child to describe the pattern and tell what comes next.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.

Solve.

I. Larry saw this dot pattern on a plate.
Use numbers to show the same pattern.



2. Jody sees this pattern on a banner.
Circle what comes next in the pattern.



Multiple Choice

Listen to your teacher read the problem.

Choose the correct answer.



3.    



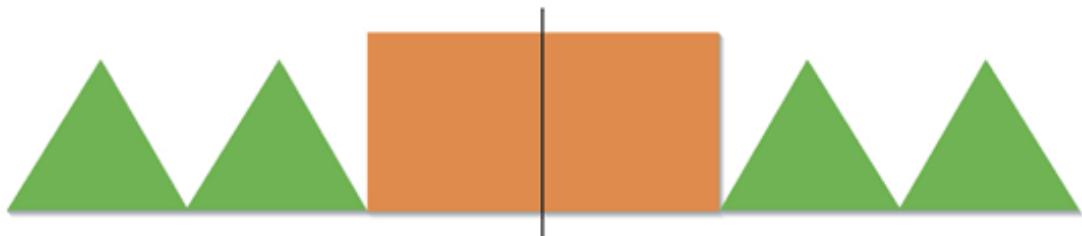
4.    

Name _____

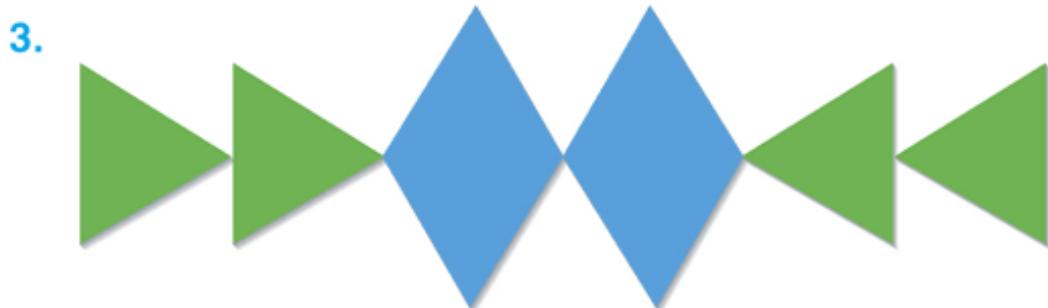
Now Try This **Design Symmetry**

This design has symmetry.

The parts on both sides of the line match.



Draw a line of symmetry.





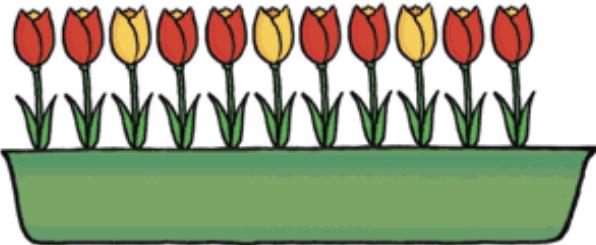
Activity

Science Connection Flower Patterns

Look at the window box.

There are red tulips and yellow tulips.

They make a pattern.



What color tulip comes next in the pattern? _____

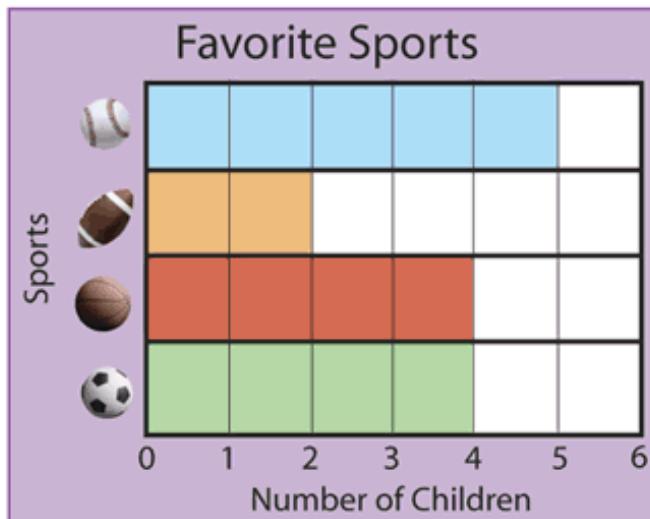
WEEKLY WR READER eduplace.com/map

Key Topic Review

Bar Graphs



Use the bar graph. Solve.



1. How many kinds of sports are on the graph? _____ sports
2. How many children choose ? _____ children
3. How many children choose ? _____ children
4. Circle the sport more children choose.
5. Circle the sport fewer children choose.

Name _____



Chapter Review/Test

Vocabulary

Fill in the blank with the correct word.

between right left

1. The red car is to the _____ of the bus.
2. The bus is _____ the red car and the taxi.



Concepts and Skills

Circle the answer that completes the sentence.



3. The boy is _____ the tree.

in front of behind



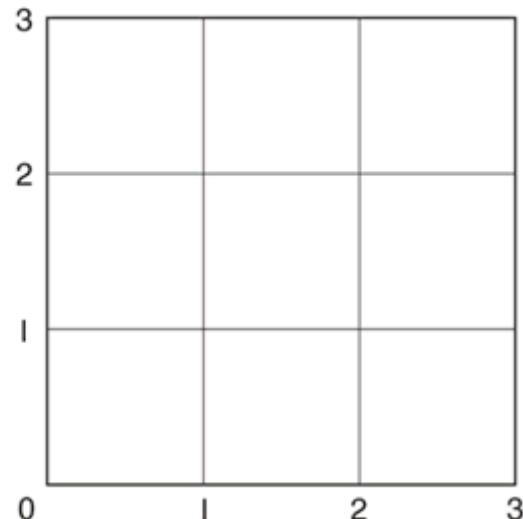
4. The dog is _____ the cat.

near behind

Follow the directions.

Draw an object on the grid.

Go Right	Go Up	Draw
5. 2 spaces	1 space	
6. 1 space	2 spaces	
7. 1 space	1 space	





Chapter Review/Test

Draw to show a flip.

8.



Draw to show a slide.

9.



Circle the one that comes next.

10.



Use shapes to make a pattern.

Draw the pattern.

11.

Draw a line of symmetry.

12.



13.



14.



Problem Solving

15. Find the pattern to solve.

Trina sees this pattern on a blanket. Circle the shape that comes next in the pattern.



Draw or write to explain.



Fractions and Probability

INVESTIGATION

Which picture shows the paper folded in half?

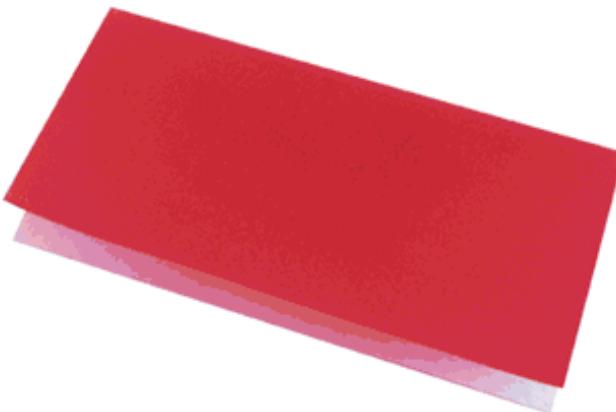
If you folded the paper in half again, how many parts would there be?





How Many Parts?

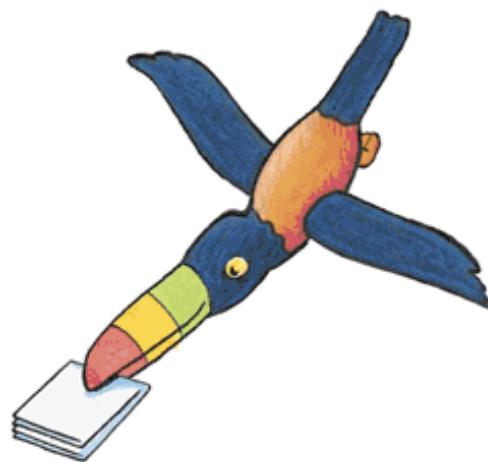
First, fold a square piece of paper in half.



Open the paper. How many parts are there?

_____ parts

Next, fold the paper in half two times.



Open the paper. How many parts are there?

_____ parts

Finally, fold the paper in half three times.

Predict how many parts there will be, then open it.

How many parts are there?

_____ parts

Was your prediction correct?

Name _____

Equal Parts



Audio Tutor 1/29 Listen and Understand

Some whole shapes can be folded into **equal parts**.

Equal parts are the same size.



whole

2
equal parts

3
equal parts

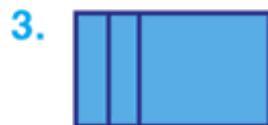
4
equal parts

Guided Practice

Circle the shape that shows equal parts.



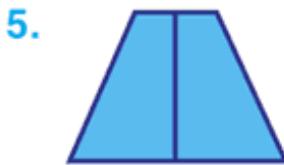
Think
Are the parts
the same size?



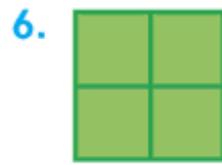
Write the number of equal parts.



_____ equal parts



_____ equal parts



_____ equal parts

Explain Your Thinking Look at the rectangle in Exercise 3.

Explain why the shape does not show 3 equal parts.

Objective

Identify and count equal parts.

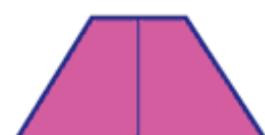
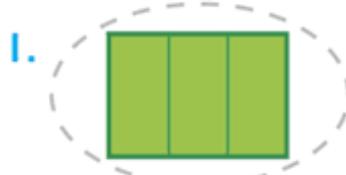
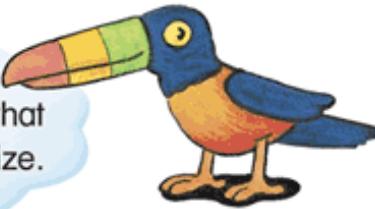
Vocabulary

equal parts

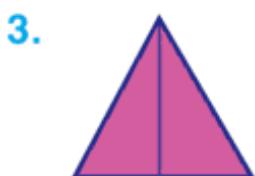
Practice

Circle the shape that shows equal parts.

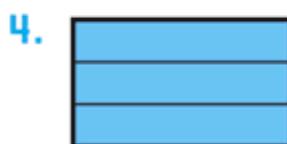
Look for parts that are the same size.



Write the number of equal parts.



2 equal parts



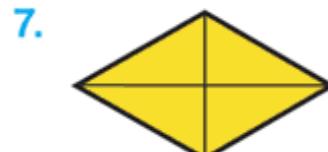
3 equal parts



4 equal parts



8 equal parts



4 equal parts



3 equal parts

Problem Solving ➤ Visual Thinking

Draw lines to show the number of equal parts.

9. whole

2 equal parts

3 equal parts

4 equal parts



Name _____

One Half

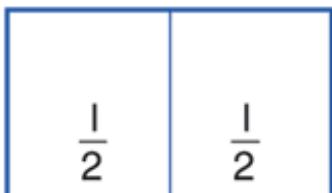
Fractions name equal parts of a whole.

Objective

Use fractions to name parts of a whole; identify one half of a whole.

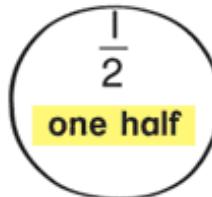
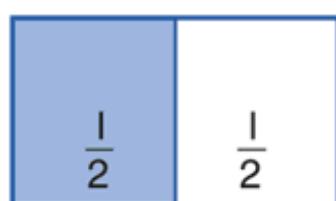
Vocabulary

fraction halves one half



There are **2** equal parts.

There are two **halves**.



1 out of **2** parts is blue.

$\frac{1}{2}$ is blue.



Guided Practice

Circle the shape that shows two halves.



1.



2.



3.

4.



Color $\frac{1}{2}$.

5.



6.



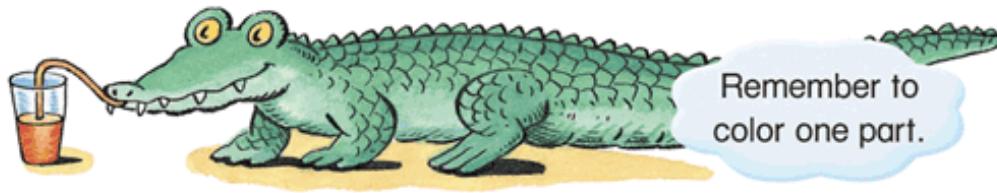
7.



Explain Your Thinking Does it matter which part of the heart you shaded in Exercise 7? Why?

Practice

Color $\frac{1}{2}$.



Remember to color one part.



Draw a line to show halves.

Color $\frac{1}{2}$.

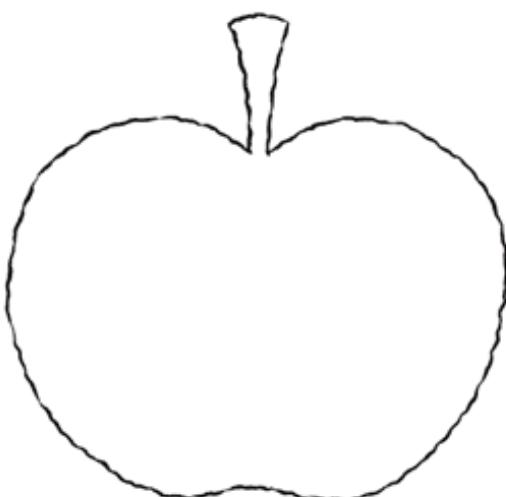


Problem Solving Visual Thinking

10. Rita and Jerome share this apple.

Draw a line to show 2 equal parts.

Color Rita's part .



Complete the sentence with numbers.

11. ____ out of ____ parts is red.

12. **Talk About It** Look at the red part. What fraction can you use to tell about it?



Name _____

One Fourth

One fourth is a fraction that names part of a whole.

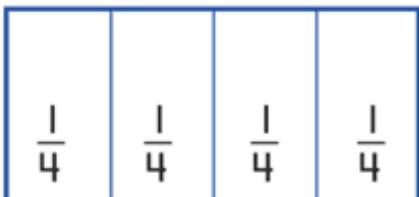
Objective

Identify one fourth and one third of a whole.

Vocabulary

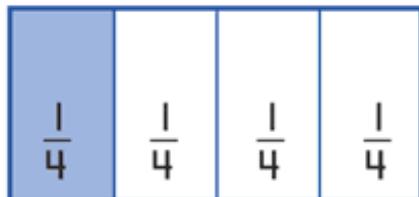
fourths
thirds

one fourth
one third



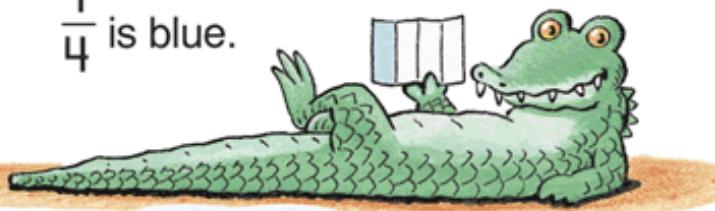
There are 4 equal parts.

There are four **fourths**.



1 out of 4 parts is blue.

$\frac{1}{4}$ is blue.



Think

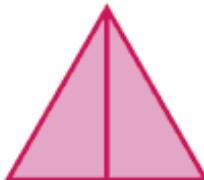
Are there 4 equal parts?

Guided Practice

Circle the shape that shows four fourths.



2.



Color $\frac{1}{4}$.



4.



5.



Explain Your Thinking Look at the circle in Exercise 1. How could you show fourths?

Practice

Color $\frac{1}{4}$.

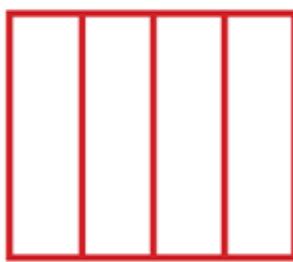
Color 1 of the 4 parts.



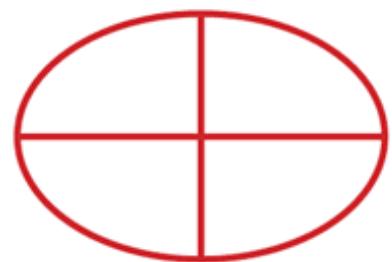
1.



2.



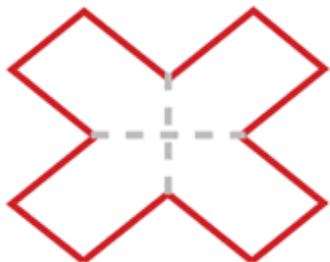
3.



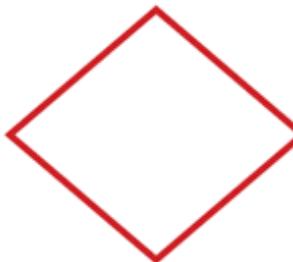
Draw lines to show fourths.

Color $\frac{1}{4}$.

4.



5.



6.



Problem Solving ➤ Visual Thinking

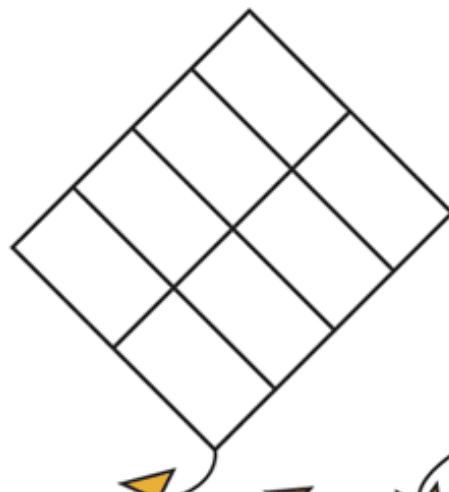
7. Color 1 part of the kite .

Color 7 parts of the kite .

Complete the sentence with numbers.

8. ____ out of ____ parts is yellow.

____ out of ____ parts are green.



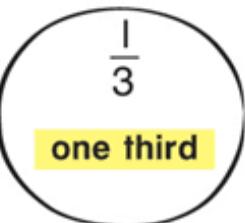
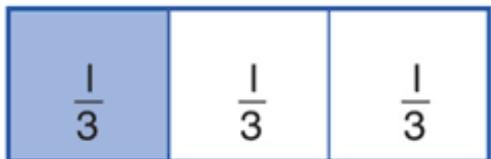
9. **Talk About It** Look at the kite. What fraction can you use to tell about the green part?



Name _____

Now Try This One Third

A shape can have 3 equal parts called thirds.



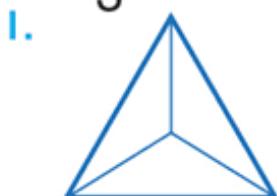
There are 3 equal parts in the whole.

1 out of 3 parts is blue.

There are three **thirds**.

$\frac{1}{3}$ is blue.

Color $\frac{1}{3}$.



Color 1 part. Circle the fraction.



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

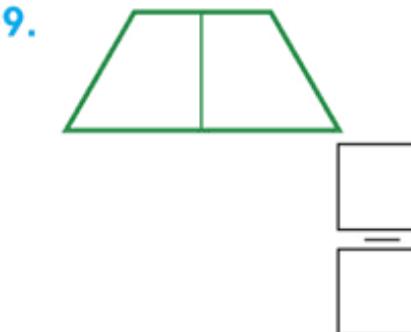
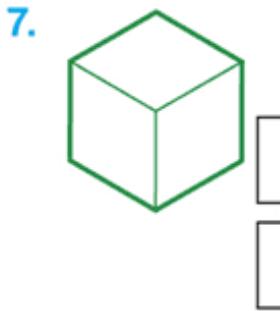


$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

Color 1 part. Write the fraction.



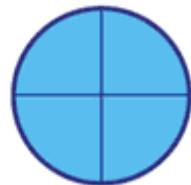
10. **Talk About It** Look at Exercises 7, 8, and 9. Tell what the fraction means for each one.



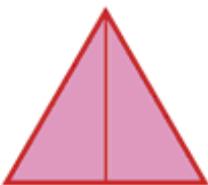
Quick Check

Write the number of equal parts.

1.



_____ equal parts



_____ equal parts



_____ equal parts

Draw a line to show halves.

Color $\frac{1}{2}$.

2.



3.



4.



Color $\frac{1}{4}$.

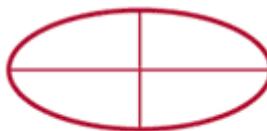
5.



6.

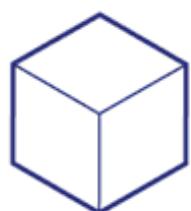


7.



Color $\frac{1}{3}$.

8.



9.



10.



Name _____

Fractions of a Set



Audio Tutor 1/30 Listen and Understand

Objective

Identify and represent part of a set ($\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$).

Use a fraction to name a part of a set.

$\frac{1}{4}$ part green
 $\frac{4}{4}$ parts in all



Guided Practice

Circle the fraction that names the green part.

1.



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

Think
2 parts in all.
1 part is green.

2.



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

3.



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

4.



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

Color to show the fraction.

5. $\frac{1}{3}$



6. $\frac{1}{4}$



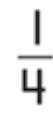
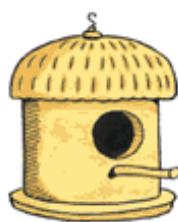
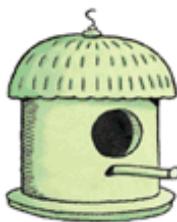
Explain Your Thinking Look at Exercise 4. What does the fraction $\frac{1}{2}$ tell you about the leaves?

Practice

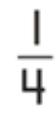
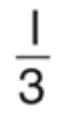
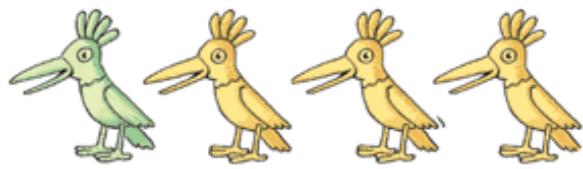
Look for one part
of the set.

Circle the fraction that names the green part.

1.



2.



Color to show the fraction.

3.



4.



Problem Solving ➤ Reasoning

5. Zack draws a tree with 4 apples.

Color 3 of the apples .

Color 1 of the apples .

Complete the sentence.

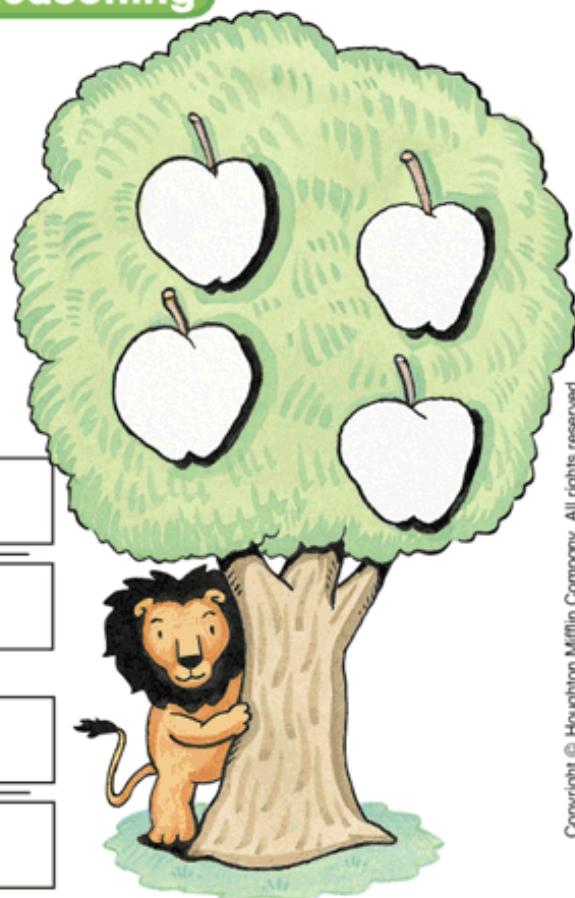
Write the fraction.

6. _____ out of _____ apples is green.

—

—

7. _____ out of _____ apples are red.



At Home Use a collection of like items to make sets of 2, 3, and 4.

Ask your child to use a fraction to identify one item in each set.

Name _____

Activity: Probability



Audio Tutor 1/31 Listen and Understand



Work Together

Predict what will happen when you spin a spinner. Then check your predictions.

Objective

Predict and determine the probability of an event.

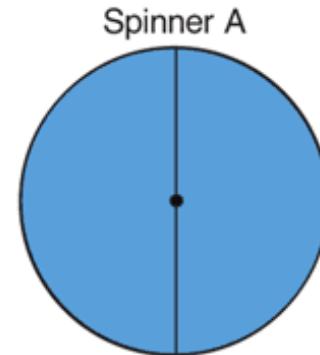
predict certain
impossible probable

Step 1

Predict What do you think will happen when you spin each spinner?

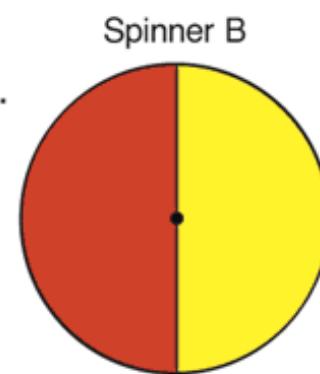
• **Spinner A**

It is **certain** that it will point to blue.



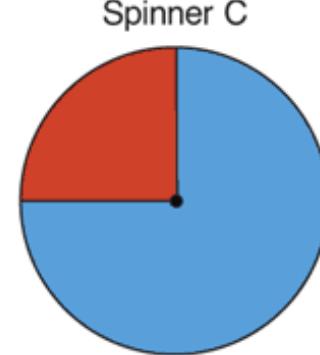
• **Spinner B**

It is **impossible** that it will point to blue.



• **Spinner C**

It is **probable** that it will point to blue.



Step 2

Spin Use Spinner C. Spin 10 times. Record your spins in the tally chart.

1.

Spins	

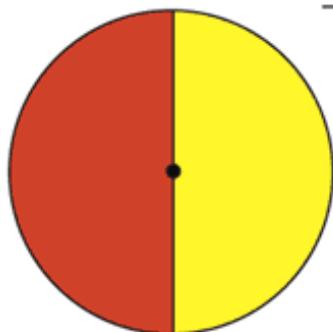
2. **Talk About It** Which color did you land on more often? Why?

On Your Own

Look at Spinner B. Predict.

1. Are you certain to spin red?

Spinner B



2. Use a paper clip and a pencil. Spin 10 times. Record your spins in the tally chart.

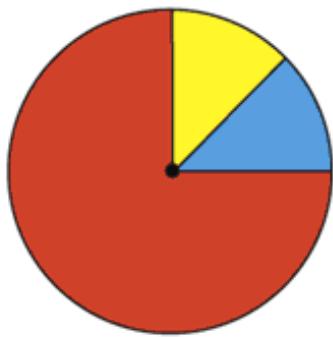
Spins

Yellow	
Red	

Look at Spinner D. Predict.

3. Are you certain to spin red?

Spinner D



4. Try It. Spin 10 times. Record your spins in the tally chart.

Spins

Red	
Yellow	
Blue	

5. On which spinner is it impossible to spin blue? _____

Will it happen? Draw a line to match.

6. A lion will put you to bed.



certain

7. You will go to school today.



probable

8. A fish will swim.



impossible



Now Try This **How Likely?**Keesha's bag has  .

She will pick one cube.

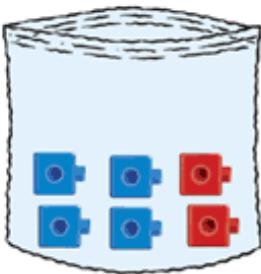
She is **more likely** to pick  .She is **less likely** to pick  .Tu's bag has  .

He will pick one cube.

He is **equally likely** to pick  as  .

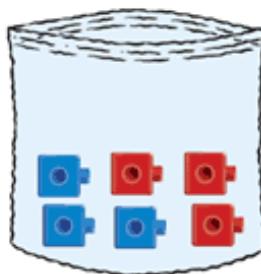
How likely is it that you will pick blue? Circle.

1.



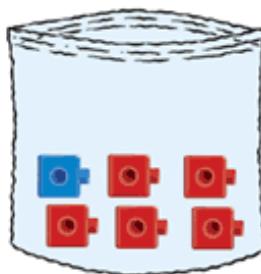
more likely
equally likely
less likely

2.



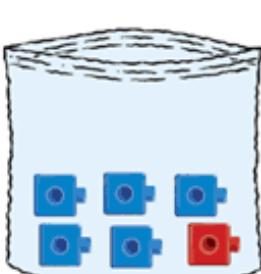
more likely
equally likely
less likely

3.



more likely
equally likely
less likely

4.

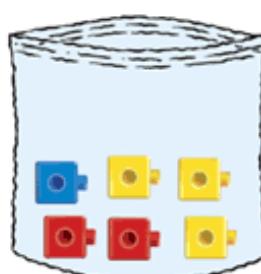


more likely
equally likely
less likely

When there are more than 2 colors, you need to say **most likely** and **least likely**.

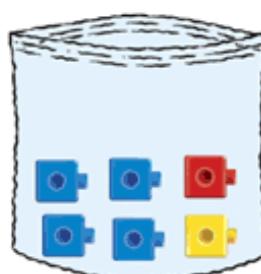
How likely is it that you will pick blue? Circle.

5.



most likely
least likely

6.



most likely
least likely

Fair or Unfair?

2 Players

What You Need:

Bag with    and    ,

Bag with      and  , ten frame (LT2),

red and blue crayons

How to Play

1. Each player takes a bag and a ten frame.
2. You each pick a cube from your bag.
3. Color 1 square the same color as the cube.
4. Put the cube back in the bag.
5. Keep playing until both players color all their squares.
6. The player with more blue than red wins.

Talk About It Look inside your bag. Who is more likely to win? Is the game fair?

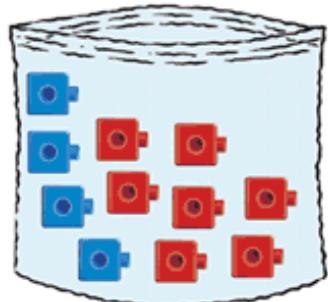


Name _____

Use a Picture

Manny has a bag of cubes.

He asks Hannah to pick
a cube from the bag.



Manny's bag

You can use a picture to predict the chance of something happening.

Is Hannah more likely to pick a red cube
or a blue cube?

_____ red _____ cube

Think

There are more
red cubes than
blue cubes.

You can use a picture to compare groups.

How many more red cubes than blue cubes
does Manny have in his bag?

_____  _____ = _____

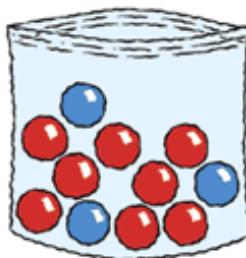
_____ more red cubes

Think

I count 7 red cubes
and 4 blue cubes. I can
subtract to find how many
more red cubes
there are.

Guided Practice

Use the picture to solve.



1. Gina picks a marble from the bag. Which color marble is she more likely to pick?

Draw or write to explain.

Think

I count 8 red and 3 blue.

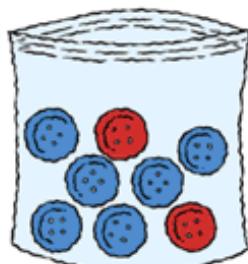
2. Gina compares the red and blue marbles in her bag. How many more red marbles than blue marbles does she have?

Think

I can subtract $8 - 3$ to find how many more red marbles she has.

_____ more red marbles

Practice



3. Sam asks Jamal to pick a button from his bag. Which color button is he more likely to pick?

4. Sam compares the red and blue buttons in his bag. How many more blue buttons than red buttons does he have?

_____ more blue buttons

Go on

Name _____

Mixed Problem Solving

Strategies

Find a Pattern

Act It Out With Models

Write a Number Sentence

Solve.

1. Lynn asks Carlos to pick a checker. Which color checker is he more likely to pick?



Draw or write to explain.



2. Nita is making this pattern on a quilt. Circle the color that comes next in the pattern.



red
yellow
blue



3. **Multistep** Marta picks up 2 jacks and puts them in a pile. She picks up 2 more jacks. Then she loses 1 jack. How many jacks are in her pile now?



_____ jacks

Use the tally chart to solve the problem.

4. How many origami birds does Nita make?

Animals Made	
birds	
frogs	
bugs	

_____ birds

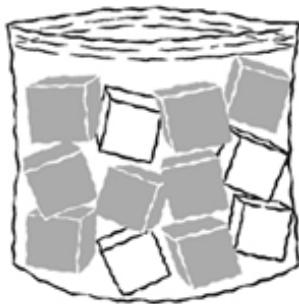


At Home Put two colors of like objects in a bag as shown in the lesson. Ask your child to predict which color he or she is more likely to pick. Take turns picking and returning the object to bag.

Problem Solving on Tests • Listening Skills

Open Response

Listen to your teacher read the problem.
Use the picture to solve.



Show your work using pictures, numbers, or words.

1. Pretend it is your turn to pick a cube from the bag. Which color are you more likely to pick?

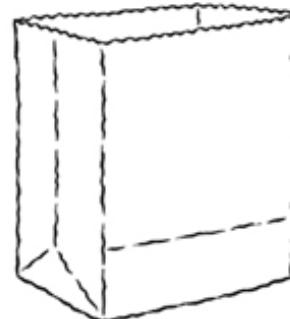
2. Compare the cubes in the bag. How many more gray cubes than white cubes are in there?

_____ more gray cubes

Multiple Choice

Listen to your teacher read the problem.
Choose the correct answer.

3. red blue yellow green



4. red blue yellow green



Education Place

See eduplace.com/map
for more Test-Taking Tips.

Name _____

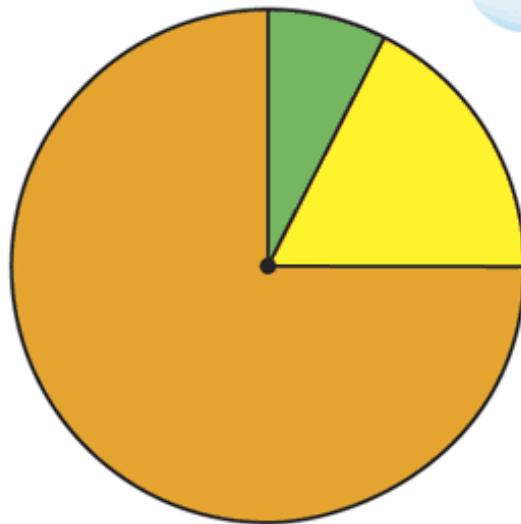
Now Try This **Predict and Spin**

Predict how many times you will get each color in **10** spins.



Then, check your prediction by spinning and recording your results.

Think
Which color might you land on most often?



Color	Predict the number.	Tally the 10 spins.
yellow		
orange		
green		
Total: 10		Total:

Activity

Art Connection Shape Painting

Some pictures are made up of shapes.

What shape do you see in this picture? _____



painting by Bruce Gray

How many can you find? _____

WEEKLY WR READER eduplace.com/map

Key Topic Review

Plane Shapes

Trace the shape.

Write how many sides and corners.

1. triangle



_____ sides
_____ corners

2. rectangle



_____ sides
_____ corners

3. circle



_____ sides
_____ corners

4. square



_____ sides
_____ corners

**Vocabulary**

1. Draw a line to match.

one fourth $\frac{1}{3}$ **one third** $\frac{1}{2}$ **one half** $\frac{1}{4}$ **Concepts and Skills**

Write the number of equal parts.

2.



_____ equal parts

3.



_____ equal parts

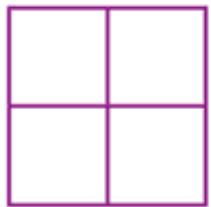
4.



_____ equal parts

Color $\frac{1}{4}$.

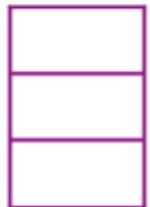
5.

Color $\frac{1}{2}$.

6.

Color $\frac{1}{3}$.

7.



Color to show the fraction.

8.

 $\frac{1}{2}$ 

9.

 $\frac{1}{4}$ 



Chapter Review/Test

Will it happen?

Draw a line to match.

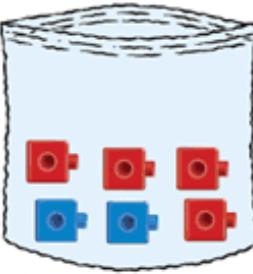
10. The sun shines on you at night. certain

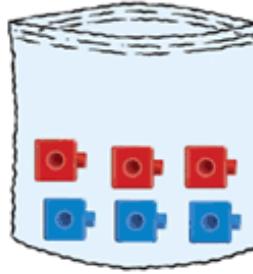
11. You sing during music time. probable

12. Puppies will grow. impossible

How likely is it that you will pick red?

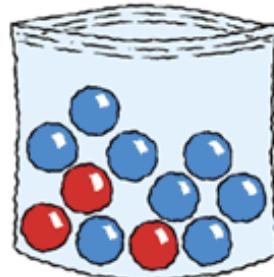
Circle.

13.  more likely
equally likely
less likely

14.  more likely
equally likely
less likely

Problem Solving

Use the picture to solve.



15. Dom picks a marble from the bag. Which color marble is he more likely to pick?

Draw or write to explain.

Name _____

Growing Patterns

Look at the picture.

Count and write the number of squares.

Draw and write what comes next.

1.



2 4

6

2.



1

36

3.

  **Education Place**Visit eduplace.com/map
for brain teasers.



Computer Modeling Fractions



Use the fraction models found at eduplace.com/map to show fractions.

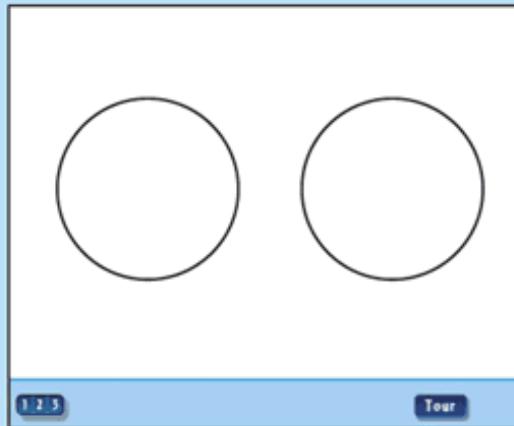
1. Set the number of equal parts.

- Put your pointer over the **scissors**.
- Choose how many equal parts you want.
- Click on a fraction circle.

2. Shade the fraction.

- Click **Fill**.
- Click a section of the circle.

3. Click [1 2 3]



Use the fraction models to show each fraction.

Draw each fraction.

1. Show $\frac{1}{3}$.

2. Show $\frac{1}{4}$.

3. Show $\frac{1}{2}$.



Vocabulary

Match the word to the correct shape.

1. cylinder



2. sphere



3. cone

Concepts and Skills

Circle one way the objects are alike.

4.



color

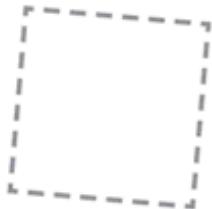
size

shape

Trace the shape.

Write the number of sides and corners.

5. square



_____ sides

_____ corners

6. triangle



_____ sides

_____ corners

Read the sorting rule.

Circle the solid shapes that follow the rule.

7. All faces





Unit 3 Test

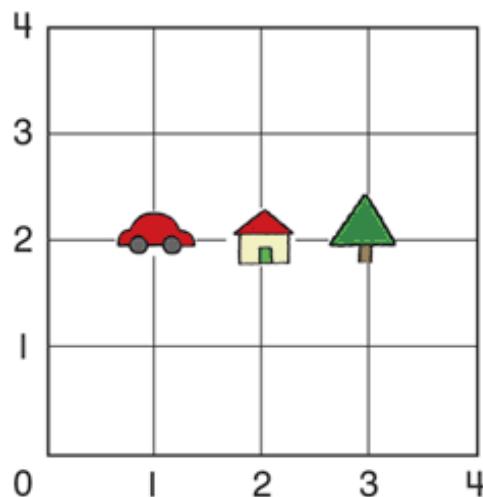
Look at the grid. Start at 0.

Write your own directions.

8. Tell how to get to the tree.

Go right _____ spaces.

Go up _____ spaces.



Complete the sentence.

9. The house is _____ the car and the tree.

Draw to show a flip.

10.



Draw a line of symmetry.

11.



Use any shapes to make a pattern.

Draw the pattern.

12.

Color $\frac{1}{2}$.



13.

Color to show the fraction.

14. $\frac{1}{4}$



Problem Solving

15. Wes sees this pattern. Put an X on the shape that is wrong. Draw the correct shape above the X.



Test-Taking Tips

.....

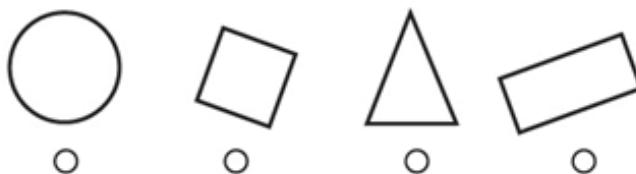
Check your work when you have finished all of the problems.

Reread each problem to make sure you have answered the question.

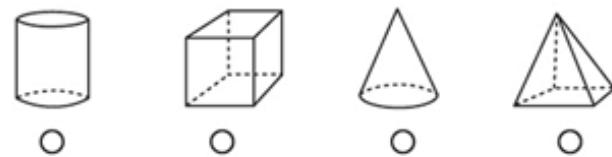
Multiple Choice

Fill in the for the correct answer.

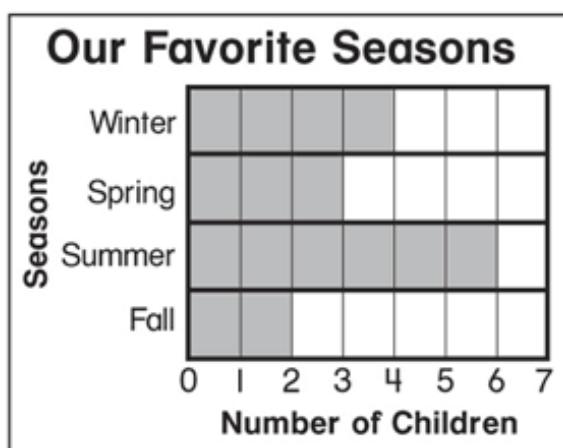
1. Which shape is a triangle?



3. Which solid has 5 faces, 8 edges, and 5 corners?

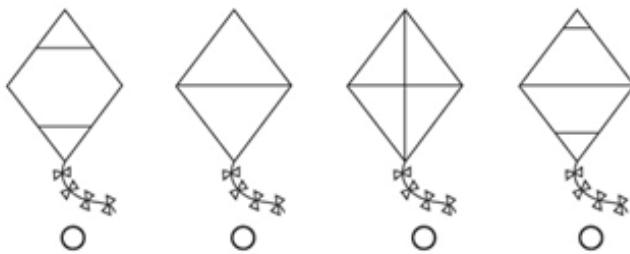


2. Use the bar graph. How many children like winter best?



3 4 5 6

4. Which kite has 4 equal parts?



Multiple Choice

Fill in the for the correct answer.

NH means Not Here.

5. Which rectangle shows thirds?



6. There are **6** turtles on a log.
Then **2** more turtles come.
How many turtles are there
in all?

6**7****8****9**

7. There are **8** bananas in
a bunch. Joe eats **2**.
How many bananas are left?

2**4****6****NH**

Open Response

Solve.

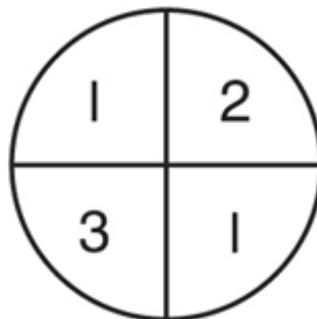
8. Draw the next two shapes in
this pattern.



9. What number do these tally
marks show?



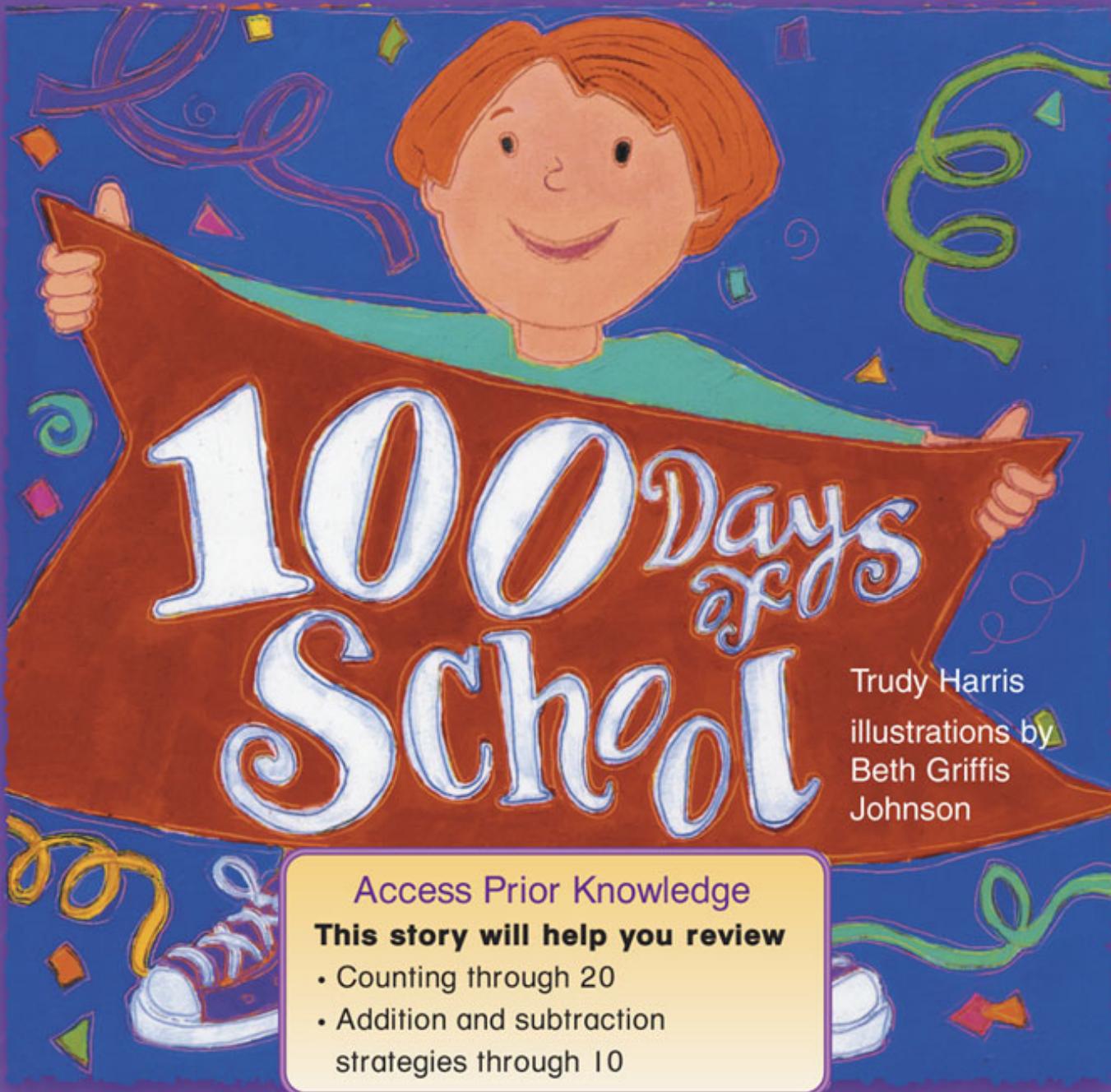
10. Ali, Ana, Gina, and Ted use
this spinner to play a game.
What number are they most
likely to spin?





Numbers Through 100

From the Read-Aloud Anthology



Trudy Harris
illustrations by
Beth Griffis
Johnson

Access Prior Knowledge

This story will help you review

- Counting through 20
- Addition and subtraction strategies through 10

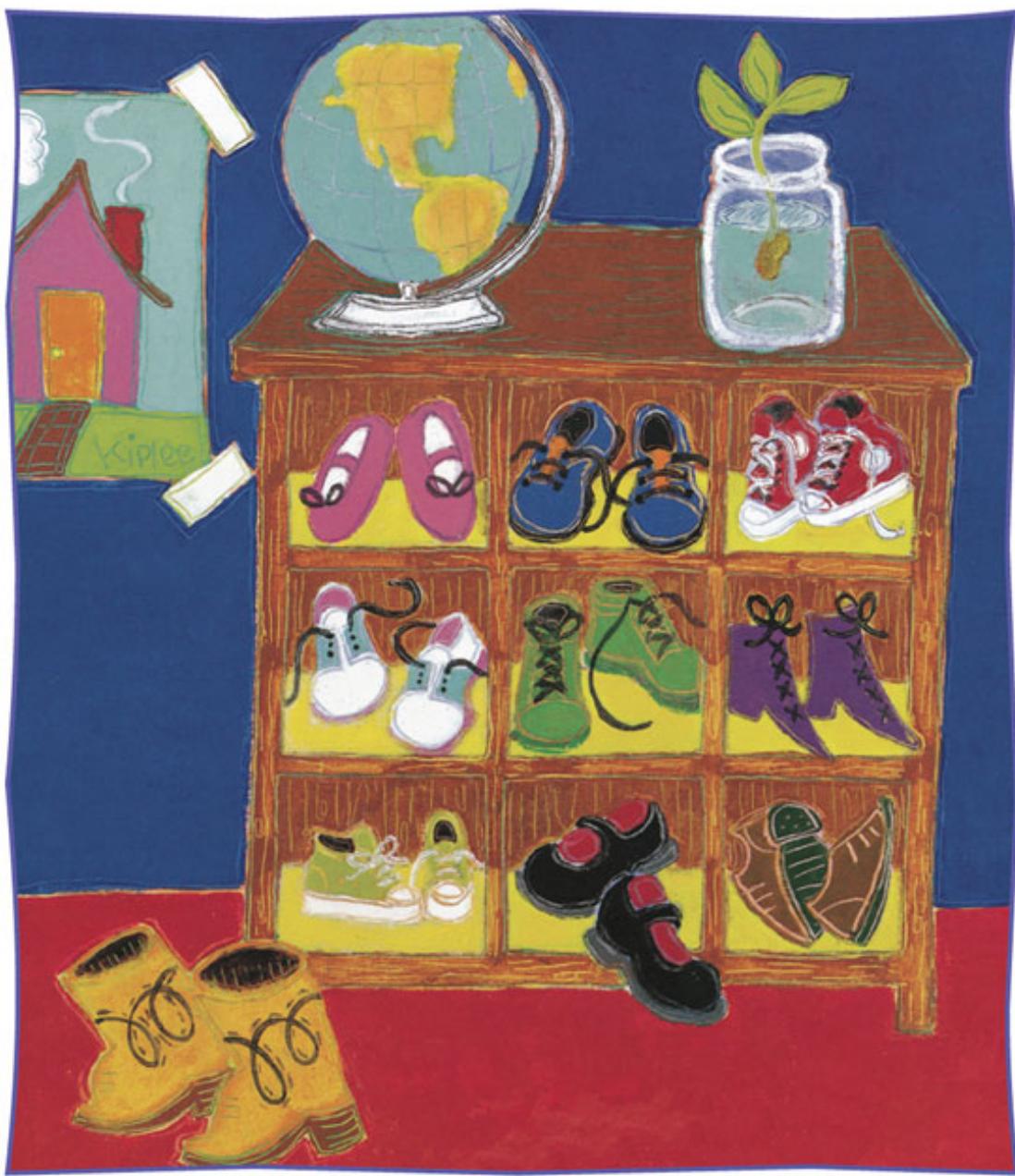
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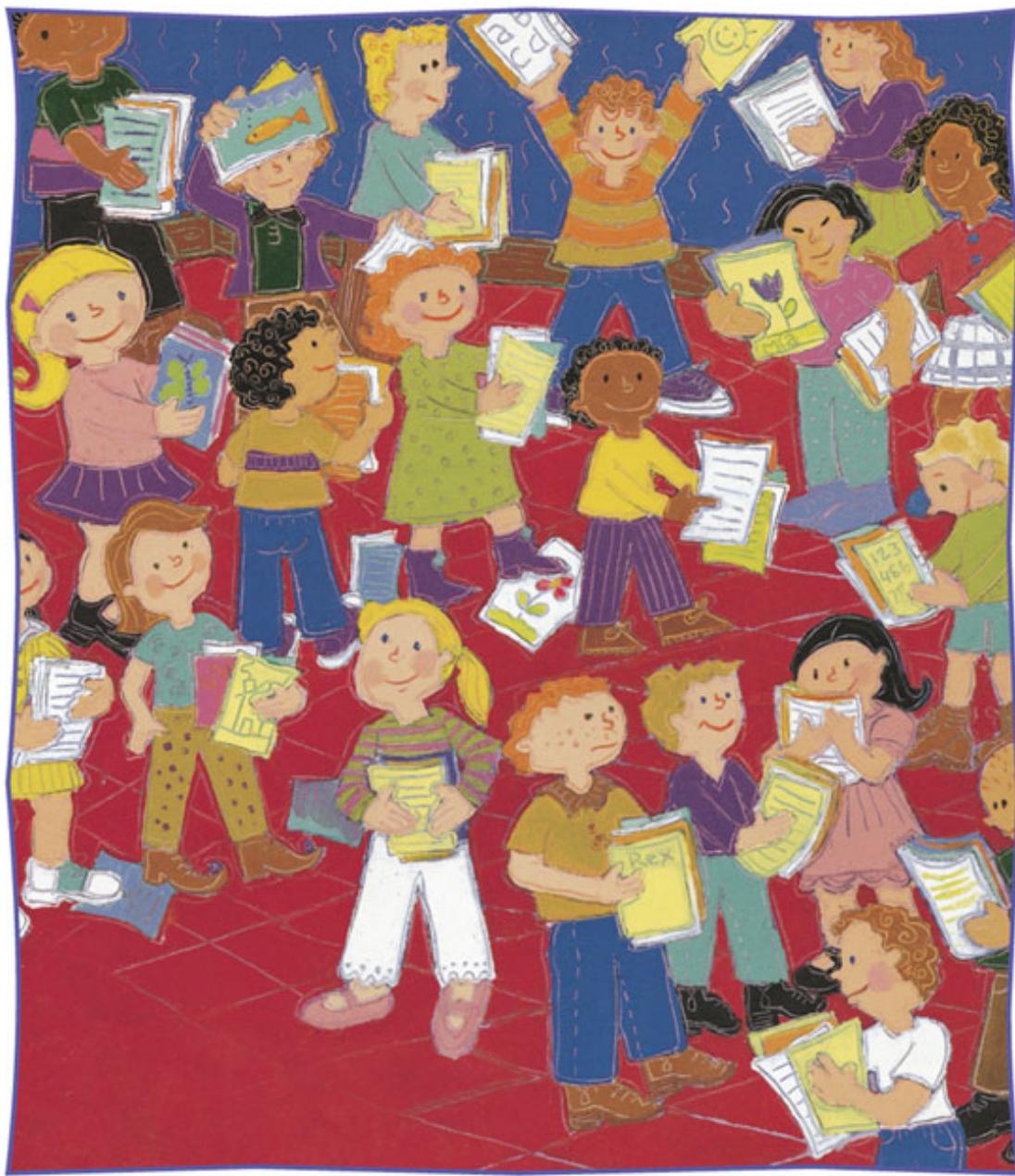
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ISBN-10: 0-618-67179-X

5 10 15 20 25 30 35 40 45 50



If 10 tired children all take off
their shoes, what do you get?
Lots of bare feet!
And . . .
(I suppose)
100 toes!



If 20 children each
drop 5 papers on the
floor, what do you get?
100 papers.
And . . .
(I would guess)
an awful mess.



Name _____



Use the pictures on pages 271b and 271c.

1. How many shoes do
5 children take off?

Draw or write to explain.

_____ shoes

2. How many shoes do
10 children take off?

_____ shoes

3. Each child drops 5 papers.
How many papers do 2
children drop altogether?

_____ papers

4. 6 children are in a line.
4 more children join them.
How many children are
there in all?

_____ children

MATH at Home

Dear Family,



My class is starting Unit 4. I will be learning about place value, regrouping, and number patterns. I will also be learning about ordinal numbers, from first through tenth. These pages show what I will learn and have activities for us to do together.

From, _____

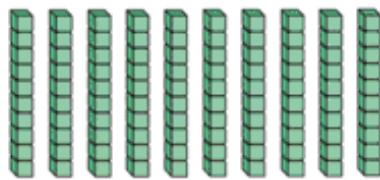
Vocabulary

These are some words I will use in this unit.

ones and tens In the number 25, the 2 stands for 2 tens, and the 5 stands for 5 ones.



one hundred 10 groups of 10 ones



regroup Trade 10 ones blocks for 1 tens block.



estimate You can estimate when you do not need to find the exact answer.

Some other words I will use are **odd, even, before, after, and between**.

Vocabulary Activity

Let's work together to complete these sentences.

1. When you trade 10 ones for 1 ten you _____.
2. If you have 10 tens you have _____.
3. When you do not need to find the exact answer you can _____.
4. In the number 12, the 1 is in the _____ place, and the 2 is in the _____ place.

Turn the page for more.



How To regroup numbers 10 and larger

This problem is an example of how I will be learning to regroup 10 ones as 1 ten. Sometimes I will use tens and ones blocks to help me find the answer.

Step 1

Count the cubes.
There are more than 10.

Workmat 5	
Tens	Ones

18 ones

Step 2

Regroup 10 ones as 1 ten.

Workmat 5	
Tens	Ones

Step 3

There are 8 ones left over.

Workmat 5	
Tens	Ones

1 ten and 8 ones

18



Literature

These books link to the math in this unit.
We can look for them at the library.

Each Orange Had 8 Slices: A Counting Book
By Paul Giganti, Jr.
Pictures by Donald Crews
(Pearson Learning, 1992)



Missing Mittens
By Stuart Murphy

One Hundred Is a Family
By Pam Muñoz Ryan

Let's read together!



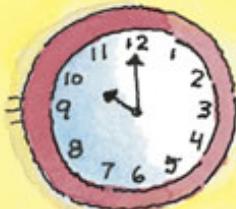
Education Place

We can visit *Education Place* at

eduplace.com/maf

for the Math Lingo game,
[e•Glossary](#), and more games
and activities to do together.



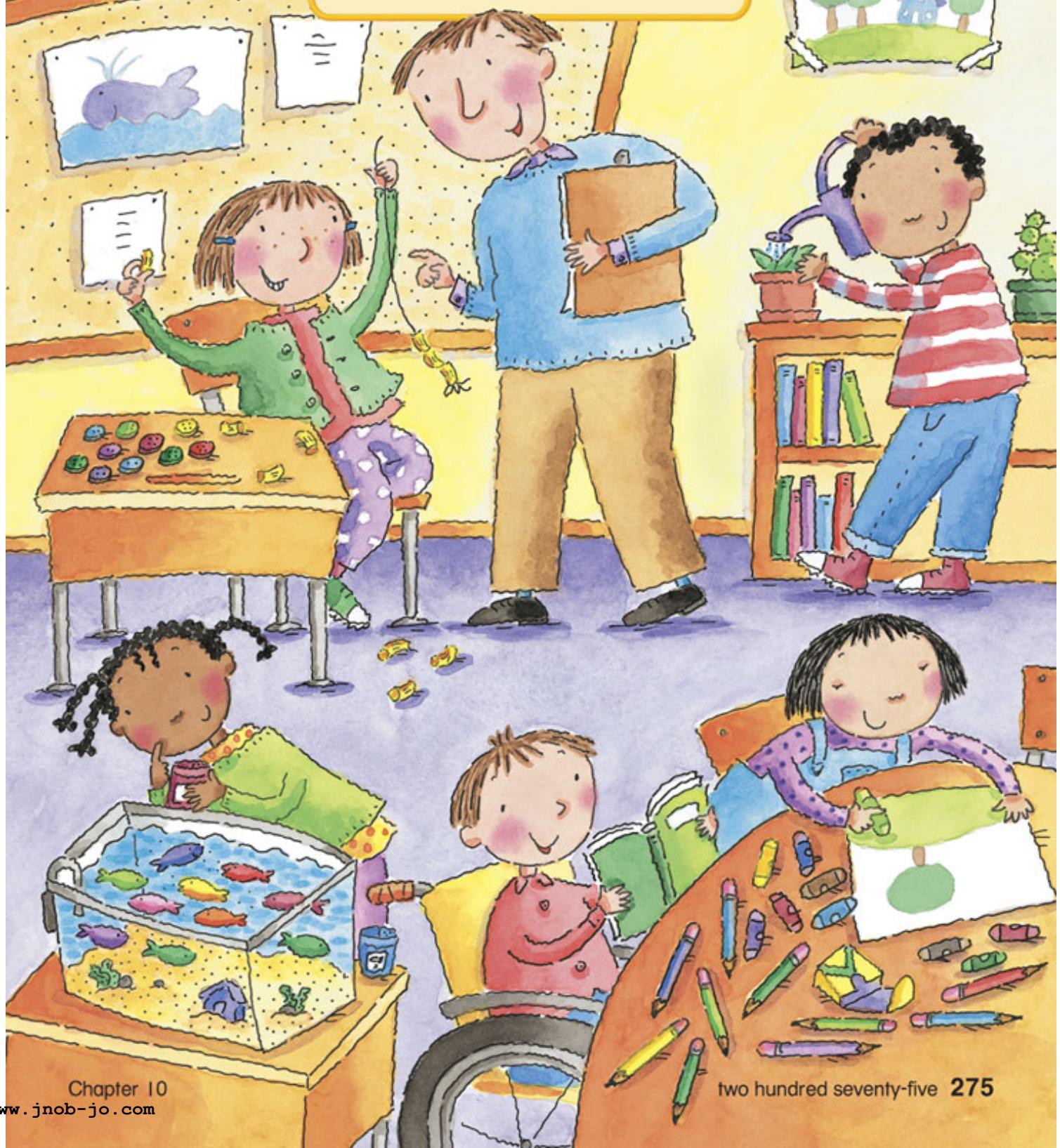


Place Value to 100

CHAPTER
10

INVESTIGATION

How many different groups of 10 objects can you find?



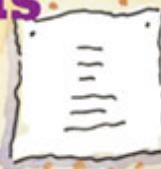


School Tools

Connect the dots.

Start at 1.

Finish at 20.



2

3

18

4

19 5

6

16

20

17

15



7

9

8

14

13 12

11

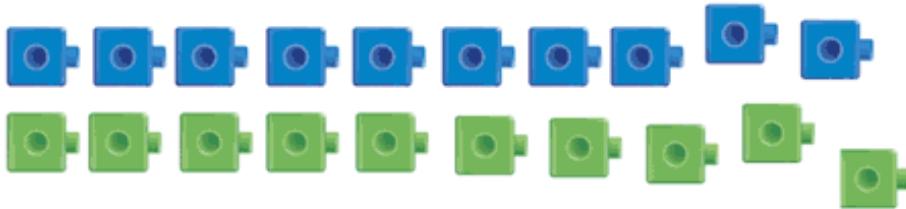
10



Name _____

Count Tens

These cubes can be counted by **ones**.



Objective

Make, count, and write tens.

Vocabulary

ones tens

You can also make groups of ten.

Then count the **tens**.

There are
2 tens.

20 twenty

Guided Practice

Use .

Make groups of ten. Draw the tens.

Say and write the number.

1. 3 tens



Think

I need to show
3 tens.

Write the number of tens shown.

Write the number.

2.



_____ thirty

_____ tens

_____ fifty

Explain Your Thinking How would you show the number sixty with cubes?



Practice

Use .

Make groups of ten. Draw the tens.

Write the number.

1. 4 tens



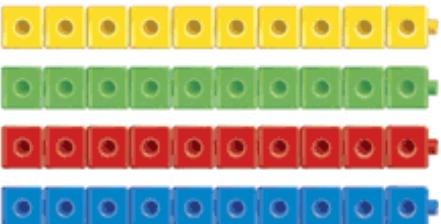
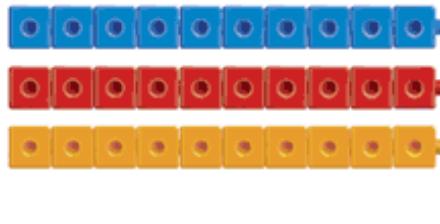
Count the groups of ten before you write the number.



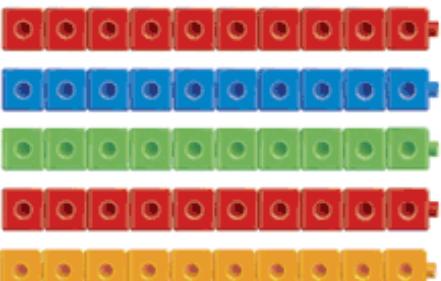
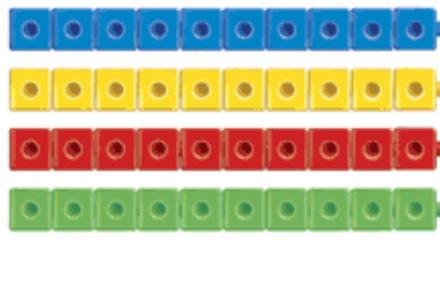

forty

Write the number of tens shown.

Write the number.

2.   _____ tens

seventy

3.   _____ tens

ninety

Problem Solving ➔ Reasoning

4. This is one row of chairs.
How many chairs are in 4 rows?



Draw or write to explain.

_____ chairs



Name _____

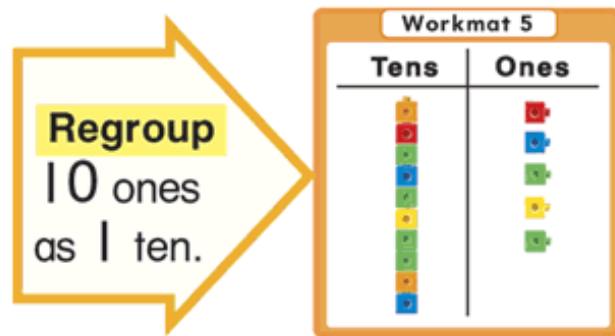
Teen Numbers



Making groups of ten helps you count.

Objective

Regroup objects into tens and ones and write the number for teen numbers.



15 ones

1 ten 5 ones

15 ones is 1 ten and 5 ones.



Guided Practice

Use Workmat 5 and .

Show.	Regroup. Write the tens and the ones.	Write the number.
1. 11 ones	_____ ten _____ one	_____
2. 14 ones	_____ ten _____ ones	_____
3. 17 ones	_____ ten _____ ones	_____
4. 19 ones	_____ ten _____ ones	_____
5. 16 ones	_____ ten _____ ones	_____

Explain Your Thinking What does each digit stand for in 16?

Practice

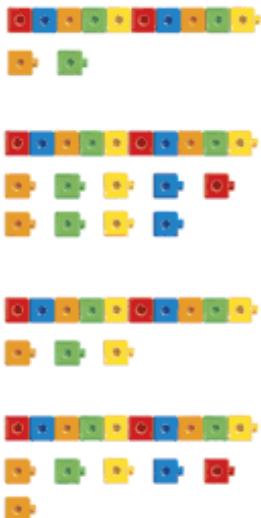
Count 10 cubes
to make 1 ten.

Use Workmat 5 and .

Show.	Regroup. Write the tens and the ones.	Write the number.
1. 18 ones	_____ ten _____ ones	18
2. 13 ones	_____ ten _____ ones	_____
3. 12 ones	_____ ten _____ ones	_____
4. 15 ones	_____ ten _____ ones	_____

Reading Math Vocabulary

5. Match the blocks to the number and word.



19

sixteen

16

twelve

12

nineteen

13

thirteen



At Home Ask your child to show numbers from this lesson as tens and ones using small objects.

Name _____

Tens and Ones



Audio Tutor 1/32 Listen and Understand

Remember to make groups of ten.

Hands-On

Objective

Regroup objects into tens and ones and write the number.

Vocabulary

regroup

Workmat 5	
Tens	Ones
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0

21 ones

Regroup
10 ones
as 1 ten.

Workmat 5	
Tens	Ones
2	1

2 tens 1 one

21 ones is
2 tens and 1 one.



Guided Practice

Use Workmat 5 and



Show.	Regroup. Write the tens and the ones.	Write the number.
1. 47 ones	_____ tens _____ ones	_____
2. 31 ones	_____ tens _____ one	_____
3. 20 ones	_____ tens _____ ones	_____
4. 36 ones	_____ tens _____ ones	_____
5. 18 ones	_____ ten _____ ones	_____

Explain Your Thinking Why does it help to regroup 10 ones as 1 ten?

Practice

Use Workmat 5 and .

Regroup 10 ones
as 1 ten.

Show.	Regroup. Write the tens and the ones.		Write the number.
1. 24 ones	2	tens	4 ones
2. 13 ones	1	ten	3 ones
3. 19 ones	1	ten	9 ones
4. 37 ones	3	tens	7 ones
5. 30 ones	3	tens	0 ones
6. 25 ones	2	tens	5 ones
7. 40 ones	4	tens	0 ones

Reading Math Vocabulary

8. Circle the word name for the missing number.

thirteen, _____, fifteen

twelve sixteen fourteen

9. Circle the word name that is the same as five tens.

fifty sixty sixteen

10. Circle the word name that is the same as 1 ten and 6 ones.

eighteen thirteen sixteen



Name _____

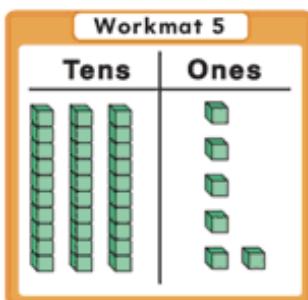
Numbers Through 50

You can show a number as tens and ones.



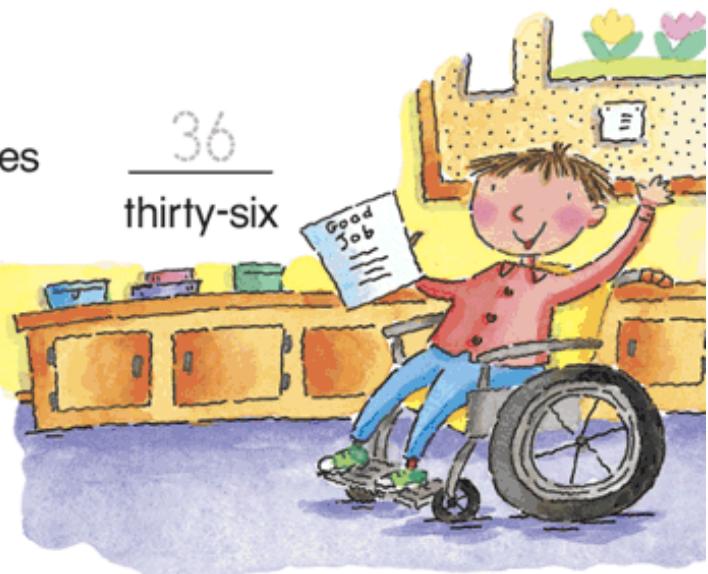
Objective

Model, read, and write numbers through 50.



3 tens 6 ones

36
thirty-six



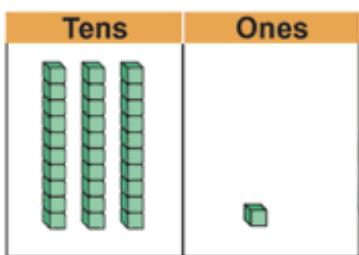
Guided Practice

Use Workmat 5, , and .

Show the number.

Say and write the number.

1.

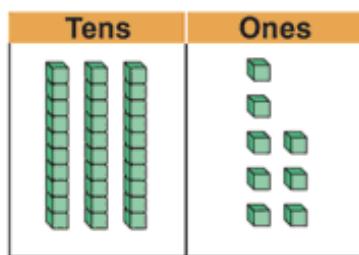


Think
I count 3 tens
and 1 one.

3 tens 1 one

thirty-one

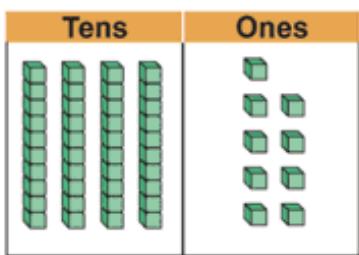
2.



3 tens 8 ones

thirty-eight

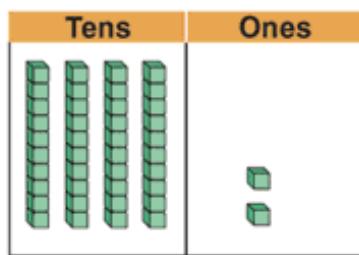
3.



4 tens 5 ones

forty-nine

4.



4 tens 2 ones

forty-two

Explain Your Thinking How are 42 and 24 different?

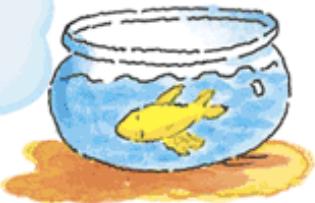
Practice

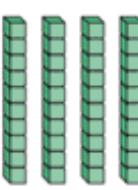
Use Workmat 5, , and .

Show the number.

Write the number.

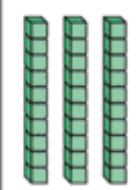
Write the tens
in the tens place.
Write the ones in
the ones place.



Tens	Ones
	

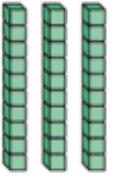
 tens ones


forty-four

Tens	Ones
	

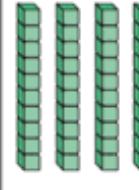
 tens ones

thirty-five

Tens	Ones
	

 tens ones

thirty-seven

Tens	Ones
	

 tens ones

fifty

Problem Solving ► Number Sense

5. Circle groups of 10 buttons.



6. How many tens? tens

7. How many ones? ones

8. How many buttons altogether?



Name _____

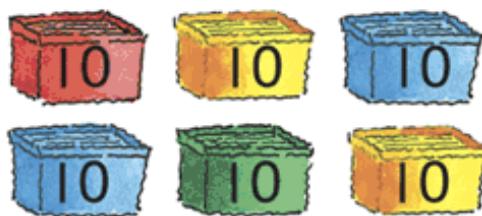
Numbers Through 99

Objective

Read and write numbers through 99.

There are different ways to show tens and ones.

There are 10 erasers in each box.



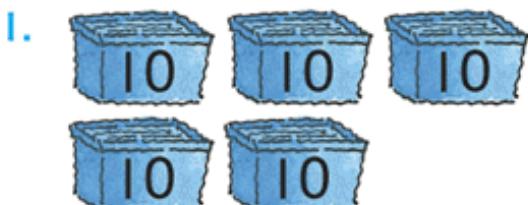
Tens	Ones
6	5

$\underline{65}$
sixty-five

Guided Practice

Write the tens and the ones.

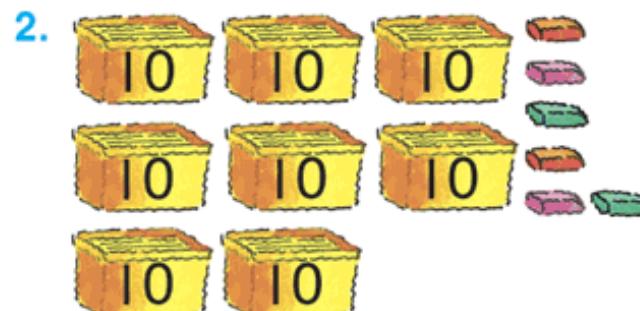
Say and write the number.



Tens	Ones
5	3

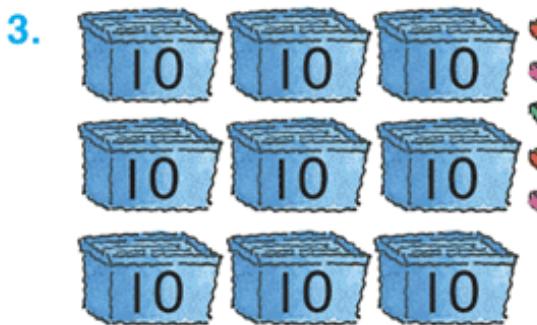
Think
I count 5 tens
and 3 ones.

$\underline{\hspace{2cm}}$
fifty-three



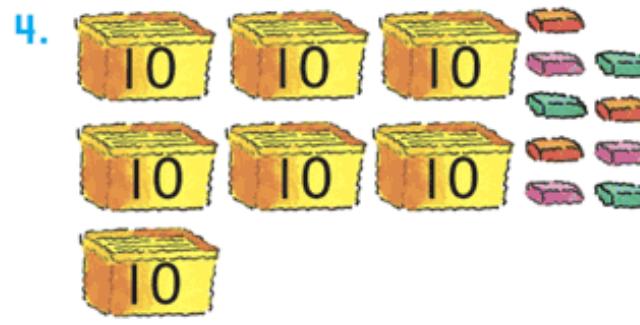
Tens	Ones
6	0

$\underline{\hspace{2cm}}$
eighty-six



Tens	Ones
9	9

$\underline{\hspace{2cm}}$
ninety-nine



Tens	Ones
9	0

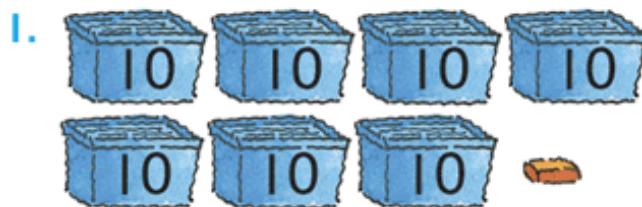
$\underline{\hspace{2cm}}$
seventy-nine

Explain Your Thinking Look at Exercise 4. How would you show the number if you had one more?

Practice

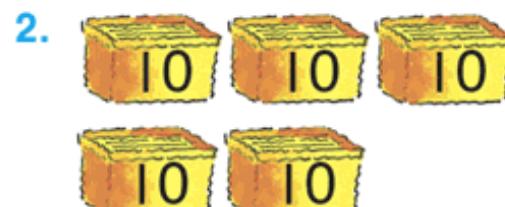
Write the tens and the ones.
Write the number.

Write the tens
in the tens place.
Write the ones in the
ones place.



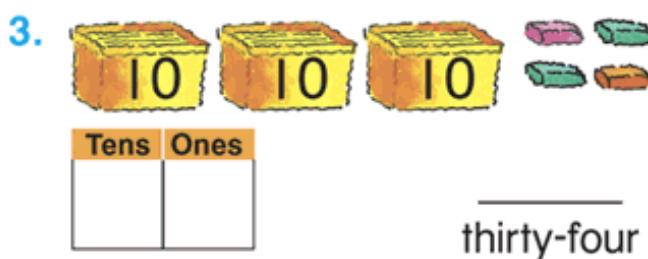
Tens	Ones
7	

7
seventy-one



Tens	Ones

fifty-five



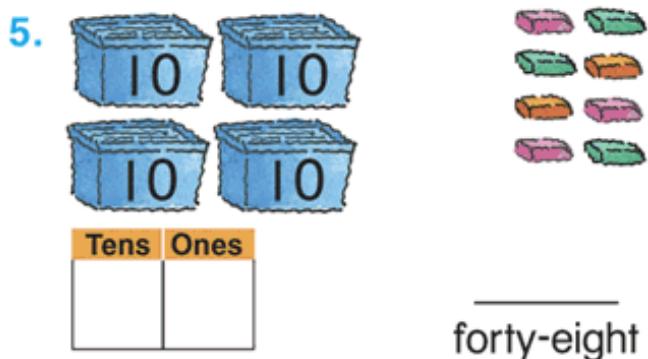
Tens	Ones

thirty-four



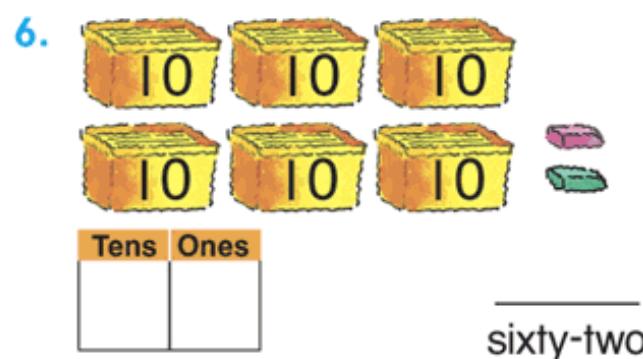
Tens	Ones

sixteen



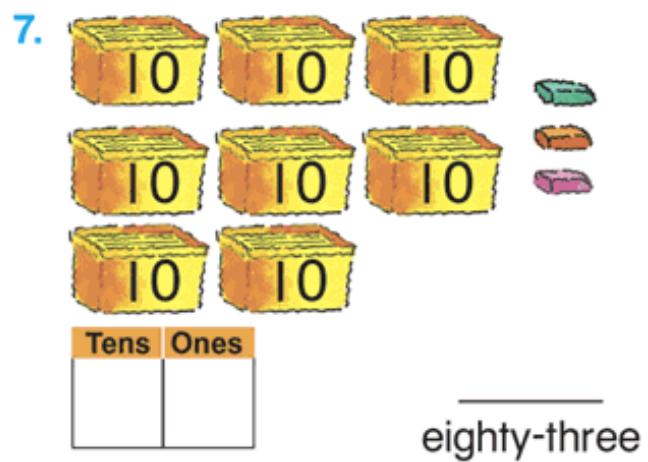
Tens	Ones

forty-eight



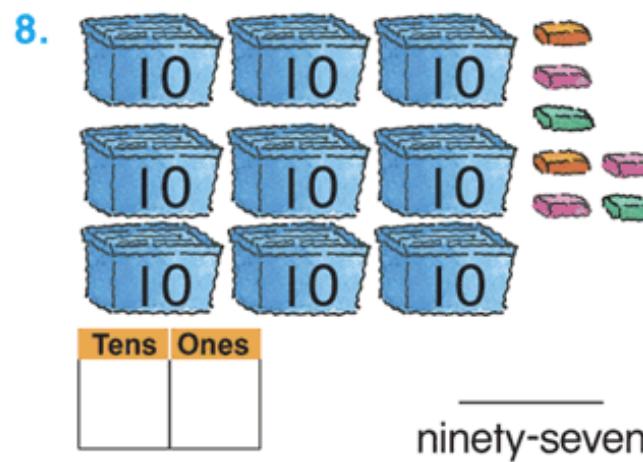
Tens	Ones

sixty-two



Tens	Ones

eighty-three



Tens	Ones

ninety-seven

Name _____

Problem Solving ► Number Sense

Write the number that each picture shows.

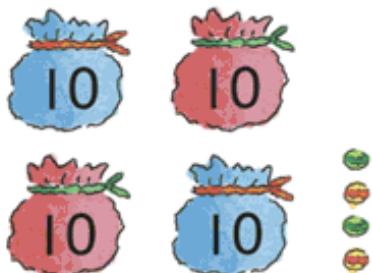
Circle the pictures that show numbers between 40 and 70.



40 to 70



9.



10.



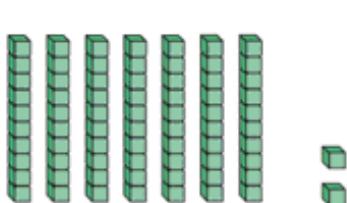
11.



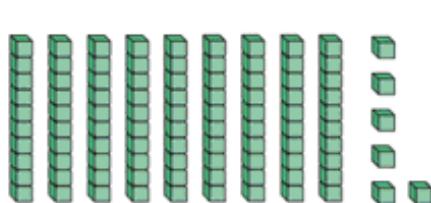
12.



13.



14.



At Home Write several two-digit numbers on a sheet of paper. Ask your child to tell how many tens and how many ones there are for each number.