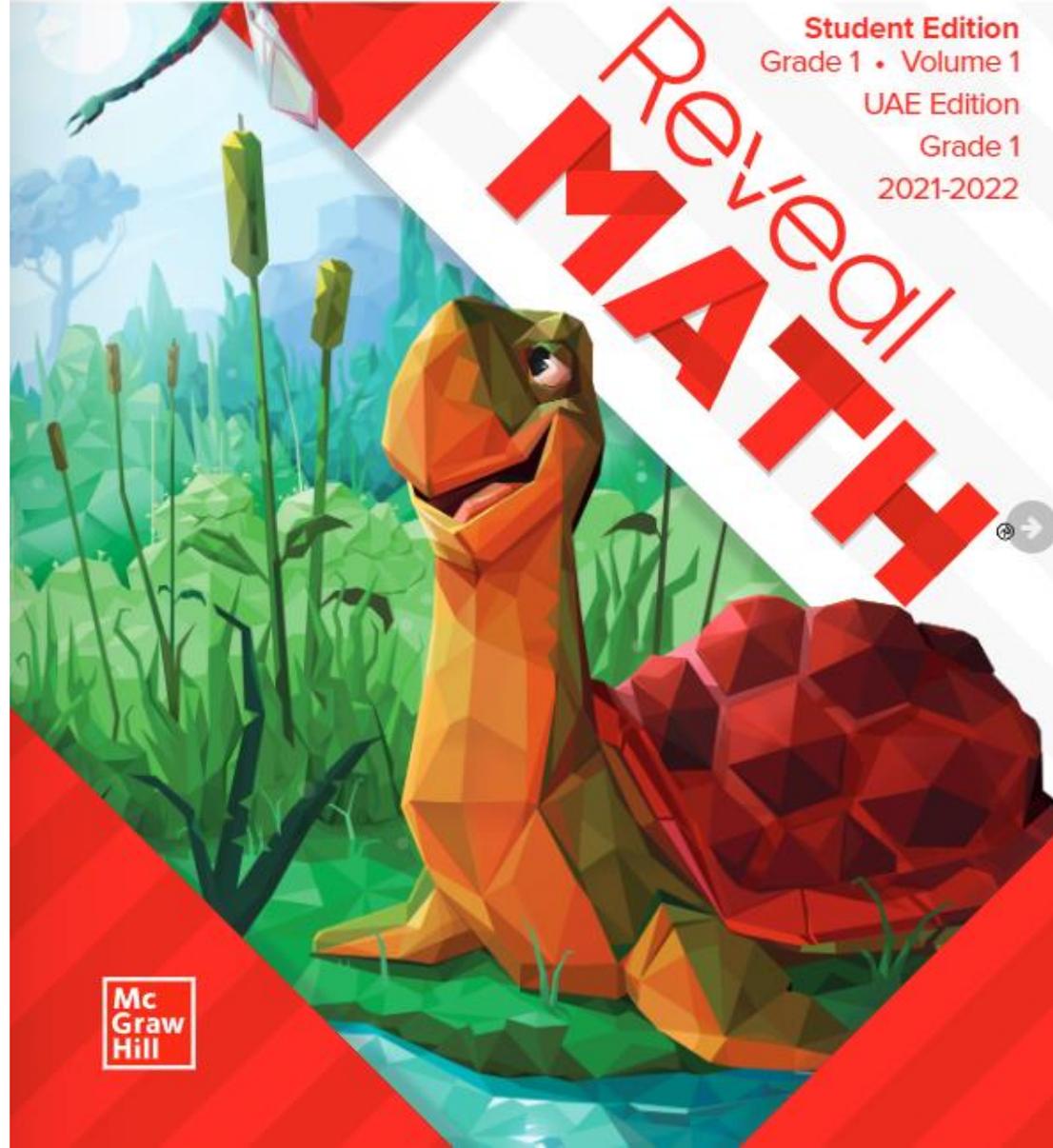




UNITED ARAB EMIRATES  
MINISTRY OF EDUCATION



**Student Edition**  
Grade 1 • Volume 1  
UAE Edition  
Grade 1  
2021-2022



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# Number Patterns

## Focus Question

How can I use patterns to count, read, and write numbers?

**Hi, I'm Erik.**

I want to make video games. I am playing a game now. When I hit a target, I will get one point. I have 25 points! Next I will have 26 points.



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Name \_\_\_\_\_

## Patterns

Describe the pattern. Draw the next picture for the pattern.

			
A	B	C	D
_____	_____	_____	_____

			
A	B	C	D
_____	_____	_____	_____

## Counting Patterns to 100



## Be Curious

What do you notice?  
What do you wonder?



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## Math is... Mindset

What can you do to stay  
focused on your work?

## Learn

How can you put these numbers in an order?

50 51 53 52 55 57 56 54 59 58

Numbers can be put in **counting** order.

The **ones** go up by 1 to 9,  
then start at 0 again.

34 35 36 37 38 39 40 41 42 43

The **tens** are the same.

The tens go up by 1 each  
time the ones start at 0.

Counting numbers to 100  
follow a **pattern**.

## Math is... Generalizations

How will the ones change  
after 100?

## Work Together

What numbers are missing? Draw lines to show the  
missing numbers. Describe the counting pattern.

75   78   81 82

79 77 80 76

## On My Own

Name \_\_\_\_\_

What pattern do you notice?

1. 

40	41	42	43	44	45	46	47	48	49
----	----	----	----	----	----	----	----	----	----

2. 

65	66	67	68	69	70	71	72	73	74
----	----	----	----	----	----	----	----	----	----

3. 

84	85	86	87	88	89	90	91	92	93
----	----	----	----	----	----	----	----	----	----

4. **STEM Connection** Erik plays a counting video game. How can he find the missing numbers?



5. **Extend Your Thinking** What numbers are missing? Draw lines to show the missing numbers.

96			99	100			
----	--	--	----	-----	--	--	--

102    101    97    98    103

## Reflect

What are counting patterns?

**Math is... Mindset**

How did you stay focused on your work?

# Patterns on a Number Chart to 120



## Be Curious

**What do you notice?**  
**What do you wonder?**



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### Math is... Mindset

What helps you know when there is a problem?

## Learn

Celia counts 97 pennies.

What numbers does Celia count next?



A **number chart** and counting patterns help you count.

Start at 97. Use counting patterns as you count on.

### Math is... Using Tools

How does the number chart show the pennies?

							column			
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	30	
31	32	33	34	35	36	37	38	39	40	
41	42	43	44	45	46	47	48	49	50	
51	52	53	54	55	56	57	58	59	60	
61	62	63	64	65	66	67	68	69	70	
71	72	73	74	75	76	77	78	79	80	
							row			
81	82	83	84	85	86	87	88	89	90	
91	92	93	94	95	96	97	98	99	100	
101	102	103	104	105	106	107	108	109	110	
111	112	113	114	115	116	117	118	119	120	

Counting patterns to 120 are the same as the patterns to 99.

## Work Together

Grace starts at 99. What are the next 4 numbers she counts? Explain how you know.

91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

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## On My Own

Name \_\_\_\_\_

Use the number chart on the Learn page to help you answer the questions.

1. What counting pattern do you notice for ones? Explain.

2. What counting pattern do you notice for tens? Explain.

3. What counting pattern do you notice after 100? Explain.

4. Jill counts 98 flowers. What are the next 8 numbers she counts?

91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

5. Tim counts 115 books. What are the next 5 numbers he counts?

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

6. **Error Analysis** Joy counts 108 pennies. She counts 6 more pennies. She says she has 113 pennies. Help Joy count her pennies.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

7. **Extend Your Thinking** What do you think about the counting patterns after 120? Explain.

## Reflect

How can you identify patterns when counting to 120?

**Math is... Mindset**

What helped you know when there was a problem?

# Patterns on a Number Line



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

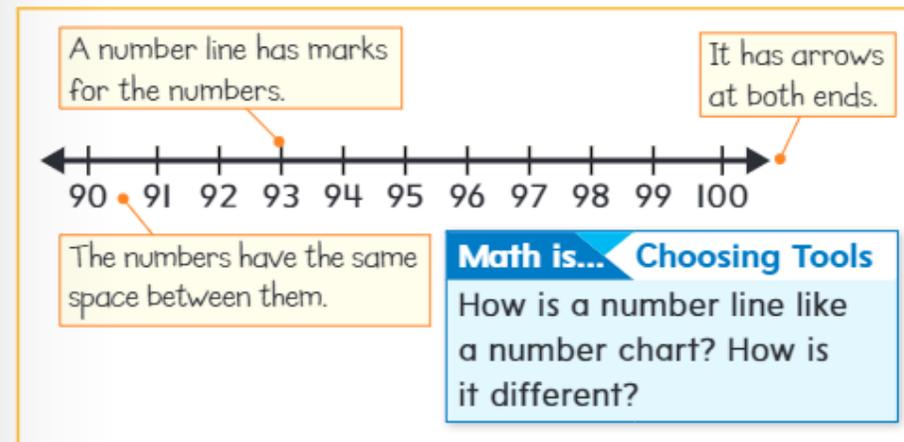
What are your strengths in math?

## Learn

Today is day 100 of the school year.  
How can the students show how many days they have been in school?

Day 100

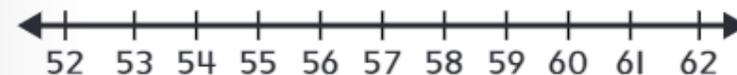
The students can make a **number line**.



Number lines can show counting patterns.

## Work Together

What counting patterns do you notice?  
How are they like the counting patterns on the number chart?

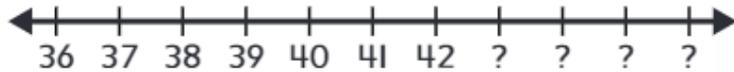


## On My Own

Name \_\_\_\_\_

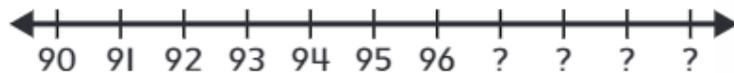
Which numbers come next? Circle the answer.

1. Start at 42. Count by 1s. Which numbers come next?



- A. 43, 44, 45, 46
- B. 44, 46, 48, 50
- C. 52, 62, 72, 82

2. Start at 96. Count by 1s. Which numbers come next?



- A. 93, 94, 95, 96
- B. 97, 96, 95, 94
- C. 97, 98, 99, 100

3. Start at 115. Count by 1s. Which numbers come next?

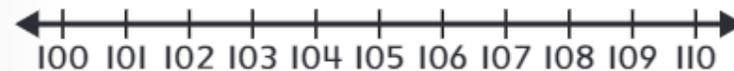


- A. 110, 111, 112, 113, 114
- B. 114, 112, 110, 108, 106
- C. 116, 117, 118, 119, 120

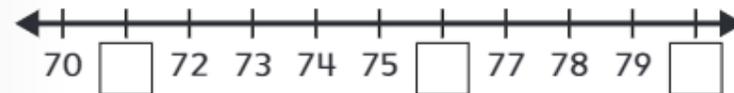
4. What counting patterns do you notice?



5. Ray starts at 103. He counts on 5 more. What patterns do you notice in the numbers Ray counts?



6. **Extend Your Thinking** How can you use number patterns to complete this number line? Explain.



### Reflect

How do number lines show counting patterns?

Math is... Mindset

How did your math strengths help you today?

## Counting by 1s

Name \_\_\_\_\_

1. The students are counting by 1s from 55.  
They count 56, 57, 58, 59, 60, \_\_\_\_\_

Circle the number that comes next.

50

59

61

70

Tell or show how you know which number is correct.

2. The students are counting by 1s from 106.  
They count 107, 108, 109, \_\_\_\_\_.

Circle the number that comes next.

99

110

108

119

Tell or show how you know which number is correct.

### Reflect On Your Learning

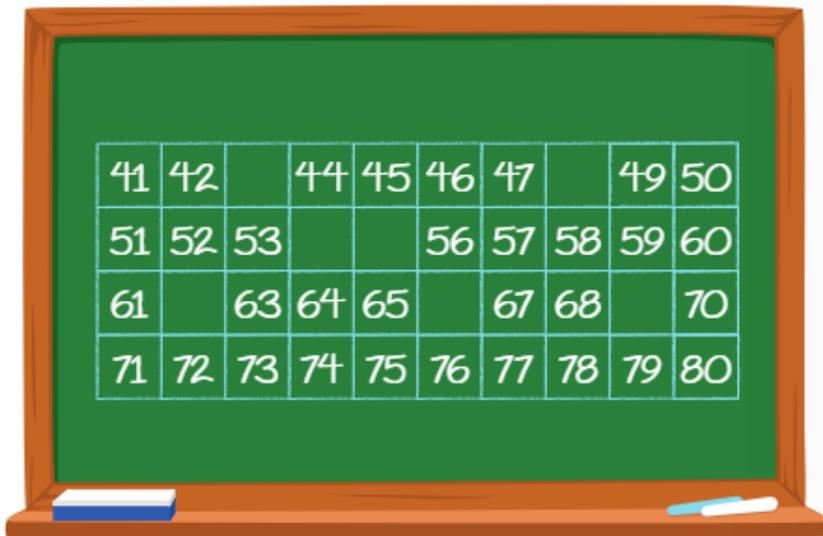


# Patterns When Reading and Writing Numbers



## Be Curious

**What do you notice?**  
**What do you wonder?**



### Math is... Mindset

How can you share your ideas clearly?

## Learn

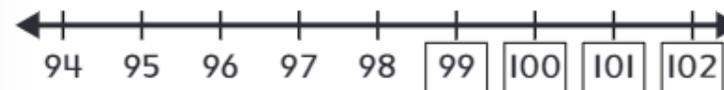
What numbers come next?

94, 95, 96, 97, 98, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

You can use counting patterns to help write the numbers that come next.

The ones go up by 1 to 9.

Then they start at 0 again.



The tens stay the same.

Then they go up by 1 when the ones start at 0 again.

### Math is... Patterns

How will the tens change after 109?

Counting patterns can help you read and write numbers.

## Work Together

What numbers come next? Write the next 3 numbers.

99, 100, 101, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Explain how you know.

## On My Own

Name \_\_\_\_\_

What numbers come next? Write the numbers.

1. 45, 46, 47, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Explain how you know.

2. 76, 77, 78, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Explain how you know.

3. 115, 116, 117, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Explain how you know.

4. **Error Analysis** Kimani counts by 1s from 99. He counts 99, 100, 110, 111, 112, 113. How can Kimani fix his mistake?

5. How do counting patterns help you read numbers?

6. **Extend Your Thinking** What number comes after 120? Explain how you know.

## Reflect

How can you use patterns to help read and write numbers?

**Math is... Mindset**

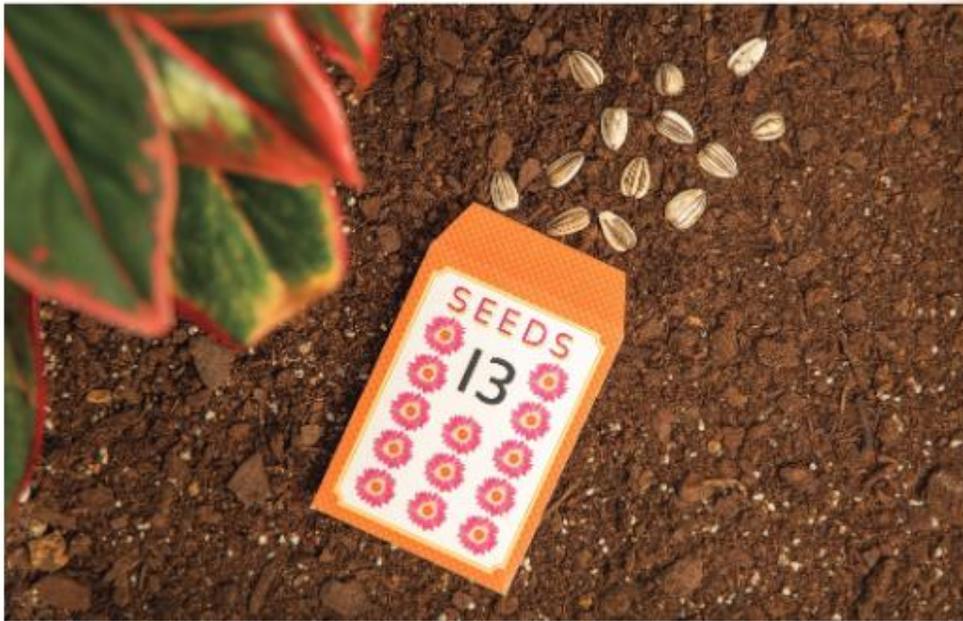
What helped you to clearly share your ideas?

# Patterns When Representing Objects in a Group



## Be Curious

**What do you notice?  
What do you wonder?**

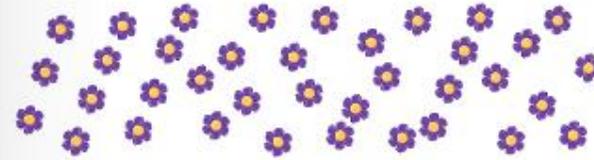


### Math is... Mindset

How can you show respect for your classmates?

## Learn

How can you show the number of flowers?



You can write a number to show **how many**.

Put the objects in groups.  10

Count the objects.  20

Write a number to show how many.  30

 37

37

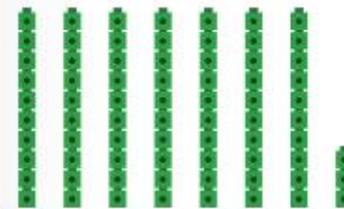
Putting objects in groups can help you count them.

### Math is... Planning

What are different ways you can group objects to count them?

## Work Together

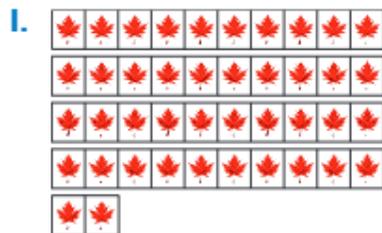
Count and write how many.



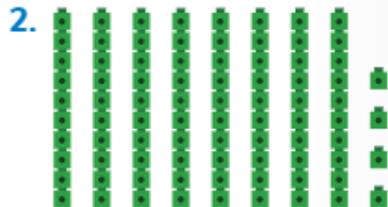
# On My Own

Name \_\_\_\_\_

How many objects are there? Write a number to show how many.



\_\_\_\_\_ leaves



\_\_\_\_\_ connecting cubes



\_\_\_\_\_ acorns



\_\_\_\_\_ connecting cubes

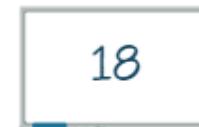
How can you show how many?

5. **STEM Connection** Erik plays a video game about flying. There are clouds in the sky. How many clouds are there?



\_\_\_\_\_ clouds

6. **Extend Your Thinking** Mr. Cho writes this number on the board. Make a drawing to show how many.



## Reflect

How can patterns help you count objects and write a number to show how many?

**Math is... Mindset**

How have you shown respect for your classmates?

# Unit Review

Name \_\_\_\_\_

## Vocabulary Review

Use the vocabulary to complete each sentence.

column

pattern

row

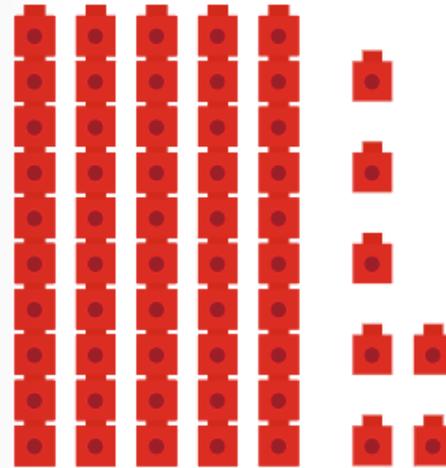
number line

ones

1. A \_\_\_\_\_ in a number chart shows numbers placed side by side.
2. When ones go up by 1 to 9 and then start again at 0, it is called a \_\_\_\_\_.
3. A \_\_\_\_\_ in a number chart shows numbers placed up and down.
4. The number 26 has 6 \_\_\_\_\_.
5. A line with numbers and arrows at both ends is a \_\_\_\_\_.

## Review

6.



How can you count the connecting cubes?

Write the number.

\_\_\_\_\_ connecting cubes

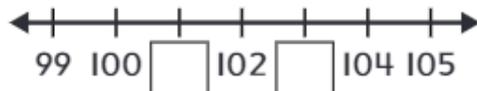
7. Carrie is counting by 1s. She starts at 54. What are the next 3 numbers she counts?  
A. 53, 54, 55  
B. 55, 56, 57  
C. 56, 57, 58
8. What numbers are missing? Write the missing numbers.  
43, \_\_\_\_\_, 45, 46, \_\_\_\_\_, 48, 49

9. Which of these are true about the numbers in the row that begins with 21? Choose the correct answer.

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	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

- A. All the numbers begin with 2.
- B. The numbers go up by 10.
- C. The numbers go up by 1.

10. What numbers are missing? Write the numbers.



## Performance Task

A store has 120 video games. Each game has a number label. Some of the labels fell off. Fill in the missing numbers on the chart.

1	2	3				7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47			
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71		73	74	75	76	77	78	79	80
81		83	84	85	86	87	88	89	90
91		93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

### Reflect

What are some ways you use patterns when you count, read, and write numbers?

## Fluency Practice

Name \_\_\_\_\_

### Fluency Strategy

You can put together and break apart 10 in many ways. Here is one way to put together 10.



$$3 + 7 = 10$$

Here is one way to break apart 10.



$$10 = 5 + 5$$

- I. What number shows a way to put together 10? Write the number.

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

### Fluency Flash

What number shows a way to put together or break apart the number 10? Write the number.

2.  $10 = 8 + \underline{\quad}$

3.  $6 + \underline{\quad} = 10$

### Fluency Check

What number shows a way to put together or break apart the number 5 or 10? Write the number.

4.  $10 = 9 + \underline{\quad}$

9.  $3 + \underline{\quad} = 10$

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

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

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

11.  $10 = 3 + \underline{\quad}$

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

12.  $10 = 2 + \underline{\quad}$

8.  $1 + \underline{\quad} = 10$

13.  $5 = 3 + \underline{\quad}$

### Fluency Talk

How is breaking apart 10 the same as breaking apart 5? How is it different?

When might knowing how to put together 5 be used in math?

## Place Value

### Focus Question

How can I use place value to represent and compare numbers?

**Hi, I'm Jin.**

I want to be a paleontologist. I collect dinosaur teeth. I have 2 boxes. Each box has 10 teeth. I have 3 extra teeth. That is 2 tens and 3 more. I have 23 dinosaur teeth! Grouping tens and ones helps me count.

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Name \_\_\_\_\_

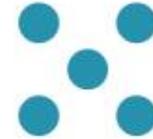
## Seeing Dots

Listen to your teacher. Describe what you see.

A.



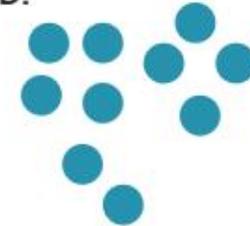
B.



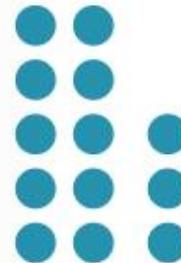
C.



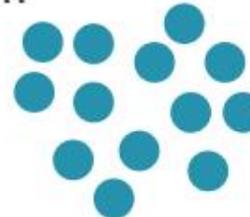
D.



E.



F.



# Numbers 11 to 19



## Be Curious

**What do you notice?**  
**What do you wonder?**



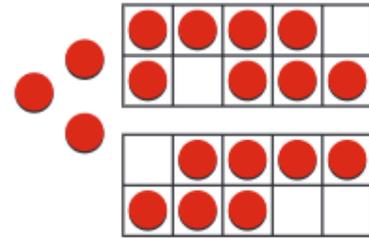
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### Math is... Mindset

How do you feel about learning math?

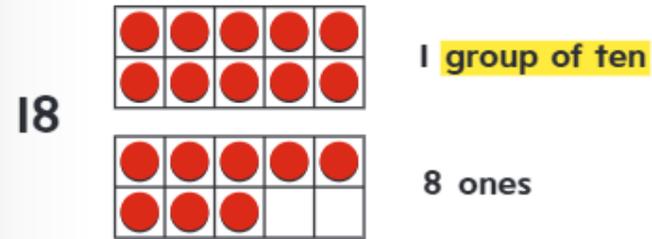
## Learn

How can you determine the number of counters?



You can fill **ten-frames**.

The top ten-frame shows 1 group of ten.  
The bottom ten-frame shows 8 ones.



### Math is... Patterns

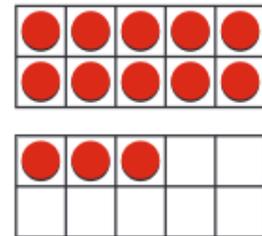
What patterns do you notice in teen numbers?

Numbers 11, 12, 13, 14, 15, 16, 17, 18, and 19 are **teen numbers**.

They have 1 group of ten and some ones.

## Work Together

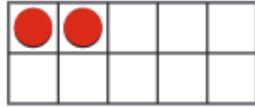
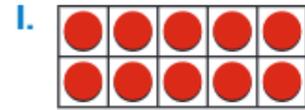
How many counters?  
\_\_\_\_\_ group of ten and  
\_\_\_\_\_ ones is \_\_\_\_\_.



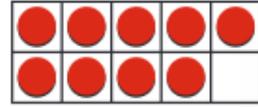
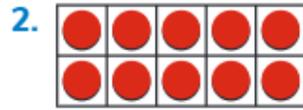
# On My Own

Name \_\_\_\_\_

How many counters? Write the numbers.

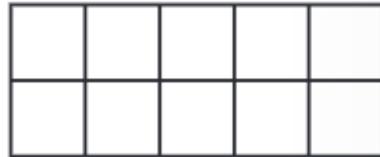
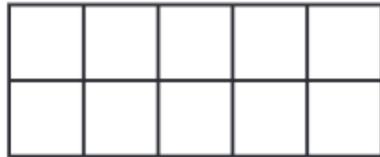


\_\_\_\_\_ group of ten and  
\_\_\_\_\_ ones is \_\_\_\_\_.



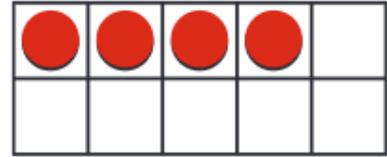
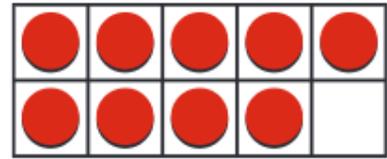
\_\_\_\_\_ group of ten and  
\_\_\_\_\_ ones is \_\_\_\_\_.

3. How can you show 17? Draw counters in the ten-frames. Write the numbers.



\_\_\_\_\_ group of ten and \_\_\_\_\_ ones is \_\_\_\_\_.

4. **Error Analysis** Do the ten-frames show 14? Draw or cross out counters to show 14.



5. **Extend Your Thinking** Circle all the teen numbers. Explain your thinking.

5    10    13    19

## Reflect

How can you make teen numbers?

**Math is... Mindset**

How did you feel about learning math today?

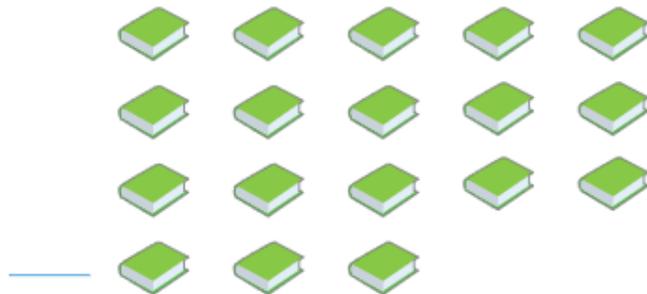
# Show the Value of the Digit: Student Interview

Name \_\_\_\_\_

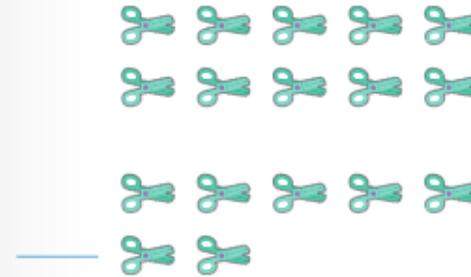
## Card 1 Twelve Shoes



## Card 2 Eighteen Books



## Card 3 Seventeen Scissors



## Reflect On Your Learning



# Understand Tens



## Be Curious

What do you notice?  
What do you wonder?

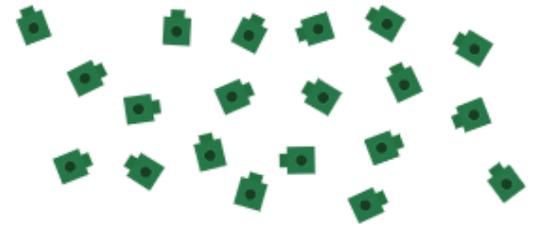


### Math is... Mindset

What are your math superpowers?

## Learn

How can you count the connecting cubes?



You can make groups of 10 cubes.

**Math is... Choosing Tools**  
How can connecting the cubes help you count?

10 ones is the same as 1 ten.

2 tens and 0 ones is 20.

You can put together 10 ones to make 1 ten.

## Work Together

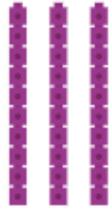
What number has 8 tens and 0 ones?  
Use connecting cubes to show the number.  
8 tens and 0 ones is \_\_\_\_\_.

# On My Own

Name \_\_\_\_\_

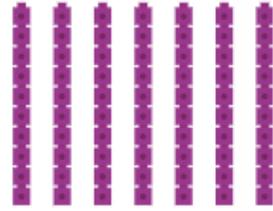
How many groups of 10? Write the numbers.

1.



\_\_\_\_\_ tens and  
\_\_\_\_\_ ones is \_\_\_\_\_.

2.



\_\_\_\_\_ tens and  
\_\_\_\_\_ ones is \_\_\_\_\_.

How many groups of ten? Use cubes to show the tens. Then write the number of tens and ones.

3. 90

\_\_\_\_\_ tens and  
\_\_\_\_\_ ones

4. 40

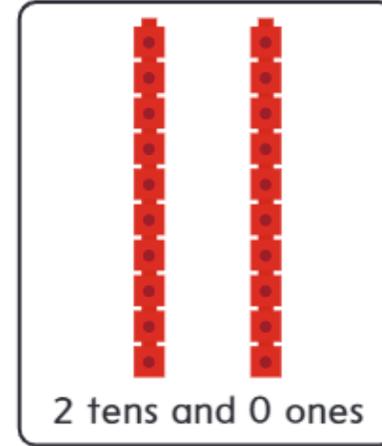
\_\_\_\_\_ tens and  
\_\_\_\_\_ ones

5. **STEM Connection** Jin sorts his dinosaur toys into groups of 10. He has 5 groups. How many dinosaur toys does Jin have?

\_\_\_\_\_ dinosaur toys



6. **Extend Your Thinking** Do these show the same number? Explain your thinking.



## Reflect

How can you show and group tens?

**Math is... Mindset**

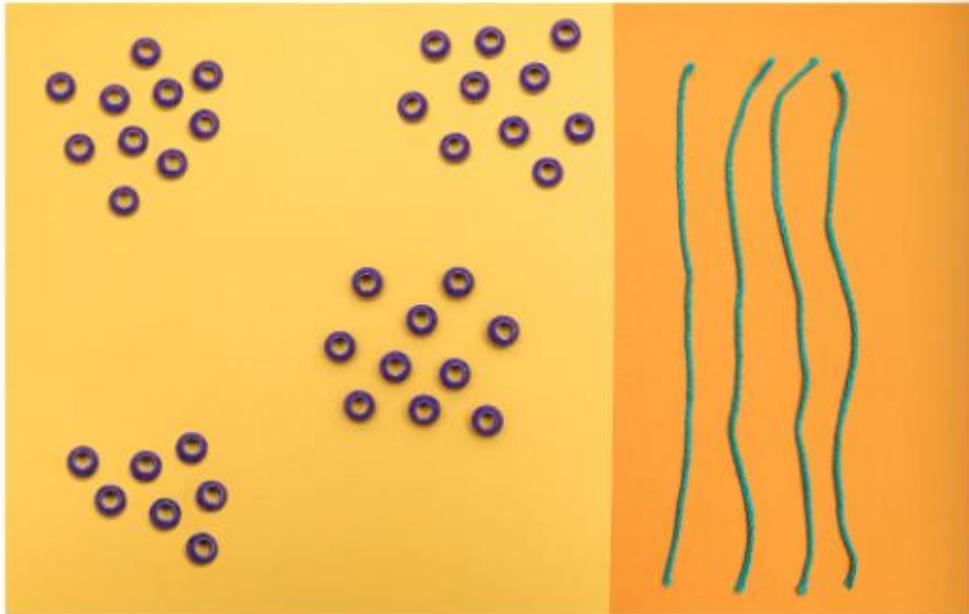
How did you use your math superpowers today?

# Represent Tens and Ones



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

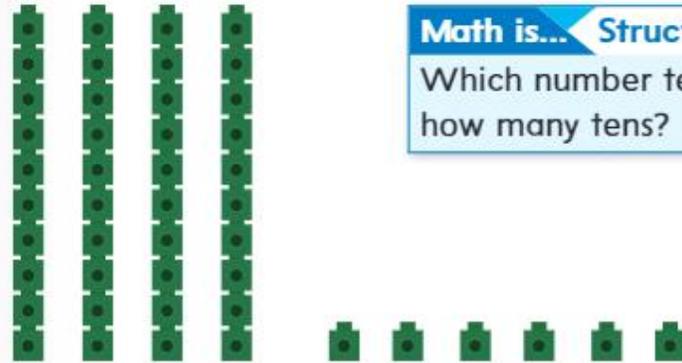
What do you want to accomplish today?

## Learn

How can you show how many tens and ones?

46

You can use cubes to show the tens and ones.



### Math is... Structure

Which number tells you how many tens?

4 tens and 6 ones is 46.

You can show a 2-digit number as tens and ones.

## Work Together

How can you show 73? Draw or use cubes.  
Then write the numbers.

\_\_\_\_\_ tens and \_\_\_\_\_ ones is \_\_\_\_\_.

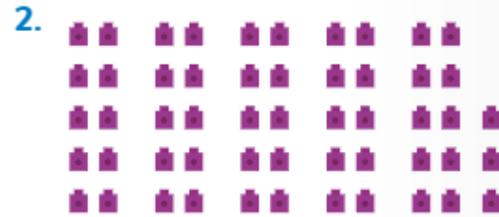
# On My Own

Name \_\_\_\_\_

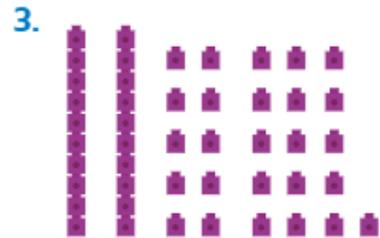
How many? Circle the tens. Then write numbers to show how many.



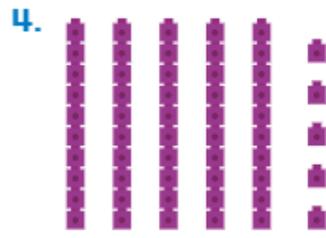
\_\_\_\_\_ tens and  
\_\_\_\_\_ ones is \_\_\_\_\_.



\_\_\_\_\_ tens and  
\_\_\_\_\_ ones is \_\_\_\_\_.



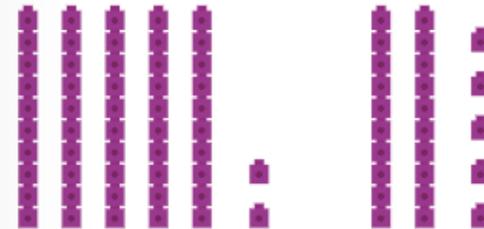
\_\_\_\_\_ tens and  
\_\_\_\_\_ ones is \_\_\_\_\_.



\_\_\_\_\_ tens and  
\_\_\_\_\_ ones is \_\_\_\_\_.

5. 75 is \_\_\_\_\_ tens and \_\_\_\_\_ ones.

6. **Extend Your Thinking** Which cubes show 25?  
Circle the cubes. Write how many tens and ones.



25 is \_\_\_\_\_ tens and \_\_\_\_\_ ones.

## Reflect

How can you show tens and ones?

### Math is... Mindset

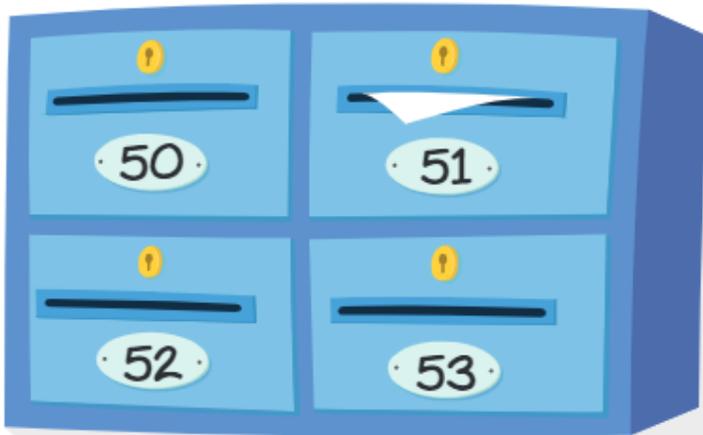
What goal did you accomplish in math today?

# Represent 2-Digit Numbers



## Be Curious

What do you notice?  
What do you wonder?

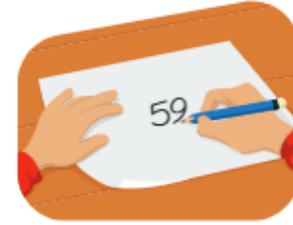


### Math is... Mindset

How can you work well with a classmate even when you might disagree?

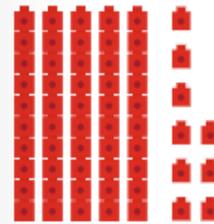
## Learn

How can you show a number with 5 tens and 9 ones?



You can show **place value** different ways.

You can use connecting cubes.

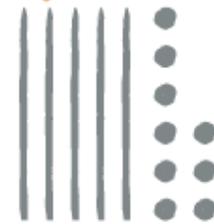


5 tens and 9 ones is 59.

You can use a **place-value chart**.

tens	ones
5	9

You can draw.



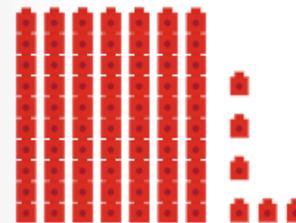
### Math is... Choosing Tools

You can show the tens and ones of a number in different ways.

How do the connecting cubes show the tens and ones?

### Work Together

How can you use a place-value chart to show how many?



tens	ones

# On My Own

Name \_\_\_\_\_

Write the number in the place-value chart.



tens	ones



tens	ones

3. Which cubes show 42? Circle the cubes.  
Write to show the tens and ones.



42 is \_\_\_\_\_ tens and \_\_\_\_\_ ones.

4. How can you show 4 tens and 0 ones? Draw to show. Write the number in the place-value chart.

tens	ones

**Extend Your Thinking** Use the number 68 to answer the questions.

5. What is the value of the 6?

\_\_\_\_\_ tens or \_\_\_\_\_

6. What is the value of the 8?

\_\_\_\_\_ ones or \_\_\_\_\_

## Reflect

How can you show numbers with tens and ones?

### Math is... Mindset

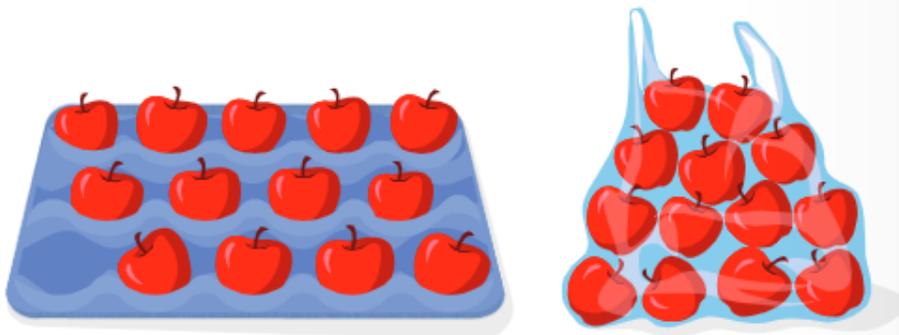
How did you work with a classmate even when you disagreed?

# Represent 2-Digit Numbers in Different Ways



## Be Curious

How are they the same?  
How are they different?



### Math is... Mindset

What helps you understand your partner's ideas?

## Learn

Grant shows a number with 1 ten and 24 ones.  
Laila shows a number with 3 tens and 4 ones.

Do they both show the same number?

### Math is... Quantities

How can you show the number?

You can show the tens and ones.

<p>34 is 3 tens and 4 ones.</p>	<p>34 is also 1 ten and 24 ones.</p>
---------------------------------	--------------------------------------

You can show a number in different ways.

## Work Together

Does each group show the same number?  
How do you know? Write each number.

<p>_____</p>	<p>_____</p>
--------------	--------------

# On My Own

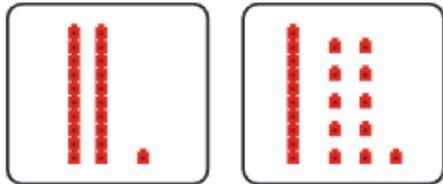
Name \_\_\_\_\_

Circle the answer to each problem.

1. Which shows a different way to make the number shown?



2. Do these show the same number?      Yes      No



Write the numbers.

3. **STEM Connection** Jin has 76 fossils. What are two ways he can show the number?

\_\_\_\_\_ tens and \_\_\_\_\_ ones is \_\_\_\_\_.  
\_\_\_\_\_ tens and \_\_\_\_\_ ones is \_\_\_\_\_.



Draw to show your thinking.

4. How can you draw to show the number 29?



5. How can you draw to show 29 a different way?



6. **Extend Your Thinking** How can you show 49 in different ways? Use connecting cubes to help. Write the numbers.

0 tens and \_\_\_\_\_ ones

1 ten and \_\_\_\_\_ ones

\_\_\_\_\_ tens and 29 ones

3 tens and \_\_\_\_\_ ones

\_\_\_\_\_ tens and 9 ones

## Reflect

How can you show a number in different ways?

**Math is... Mindset**

What did you do to understand your partner's ideas?

# Compare Numbers



## Be Curious

What do you notice?  
What do you wonder?



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### Math is... Mindset

What helps you work well in a team?

## Learn

Marcy has 39 erasers.  
Frank has 82 erasers.

Who has more erasers?

Marcy's Erasers



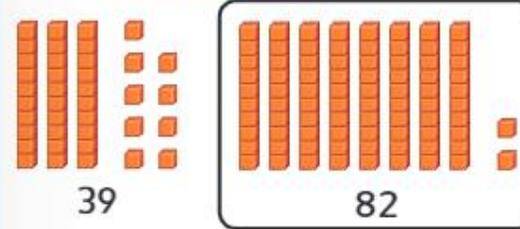
Frank's Erasers



You can **compare** the numbers to show who has more.

Compare the tens. 8 tens is more than 3 tens.

82 is **greater than** 39.



If the tens are the same, you compare the ones next.

A number can be greater than, **less than**, or **equal to** another number.

### Math is... Choosing Tools

What is another tool you can use to compare numbers?

### Work Together

Which number is greater? Circle the answer.  
Tell how you know.

74

70

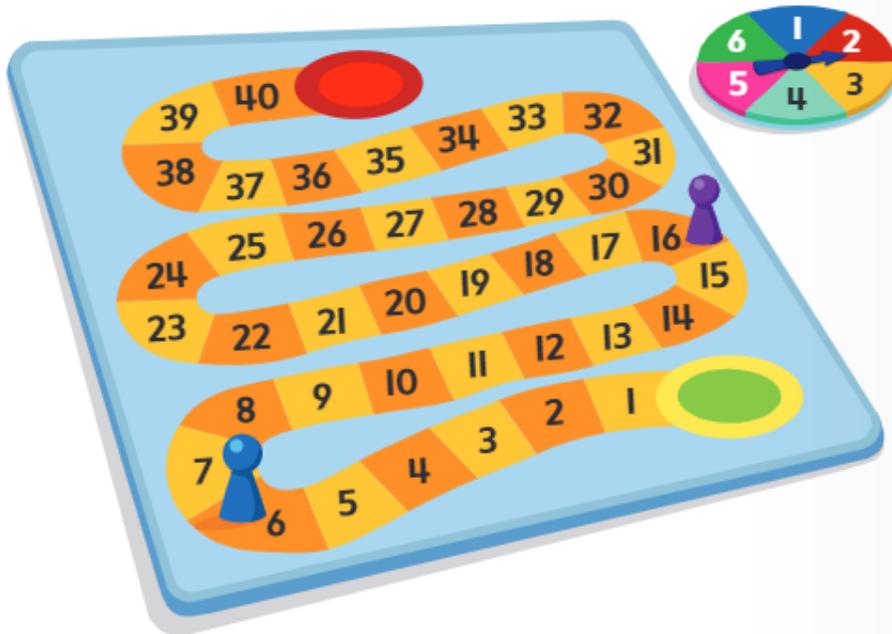


# Compare Numbers on a Number Line



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

What helps you feel relaxed when you are frustrated?

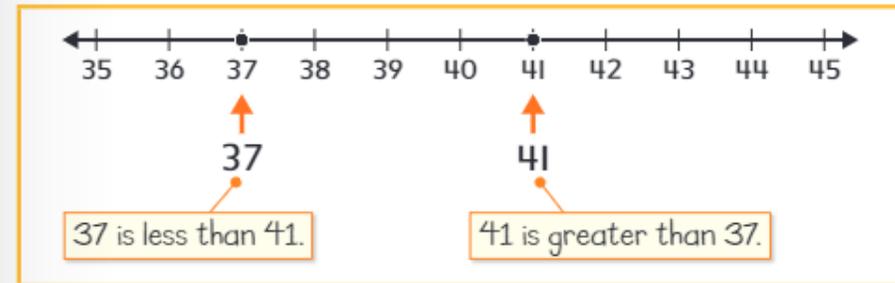
## Learn

Quinn reads for 41 minutes on Monday. She reads for 37 minutes on Tuesday.

Reading Log	
Day	Time (Minutes)
Monday	41
Tuesday	37

On which day does Quinn read for more minutes?

You can compare the numbers on a number line.



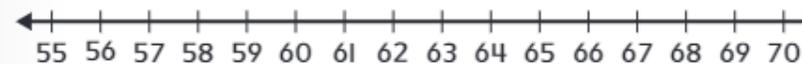
On a number line, the number to the right is greater. The number to the left is less.

### Math is... Structure

If you know 41 is greater than 37, what else do you know?

## Work Together

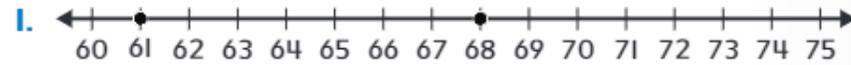
Which number is greater, 59 or 66? Show your thinking on the number line.



## On My Own

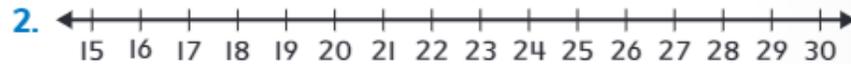
Name \_\_\_\_\_

Write *is greater than*, *is less than*, or *is equal to*.

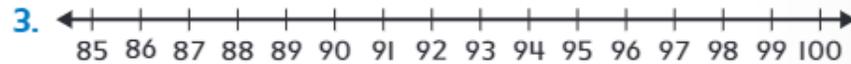


61 \_\_\_\_\_ 68

Draw dots to show the numbers on the number line.  
Write *is greater than*, *is less than*, or *is equal to*.

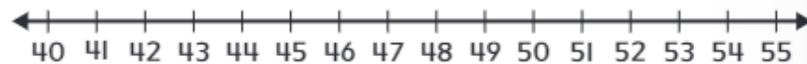


27 \_\_\_\_\_ 17



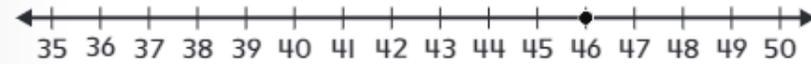
89 \_\_\_\_\_ 97

4. **STEM Connection** Jin digs for fossils.  
He digs 49 holes in his yard.  
He digs 51 holes in his garden.  
Use the number line and words  
to compare the numbers.



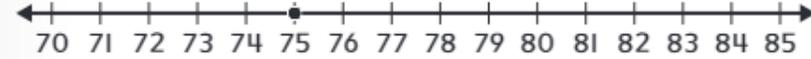
49 \_\_\_\_\_ 51

5. Which number completes the sentence? Circle the number. 46 is greater than \_\_\_\_\_.



50      39

6. **Extend Your Thinking** What number is less than 75? Draw a dot on the number line to show your answer. Explain your thinking.



## Reflect

How can a number line help you compare numbers?

### Math is... Mindset

Were you relaxed or frustrated during math today?

# Use Symbols to Compare Numbers



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

How can you be flexible in your thinking?

## Learn

The pet store has 56 clownfish and 43 goldfish.

Which kind of fish does the pet store have more of?

Fish and More! Pet Store



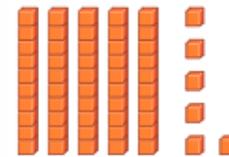
Name  
Clownfish

Fish and More! Pet Store

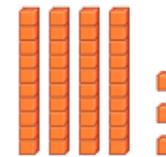


Name  
Goldfish

You can compare the numbers.



56



43

56 is greater than 43

$$56 > 43$$

You can use  $>$  (greater than),  $<$  (less than), and  $=$  (equal to) to compare numbers.

### Math is... Thinking

Why might you want to compare two numbers?

### Work Together

How can you compare the numbers? Use  $>$ ,  $<$ , or  $=$ . Explain your thinking.

$$31 \bigcirc 13$$

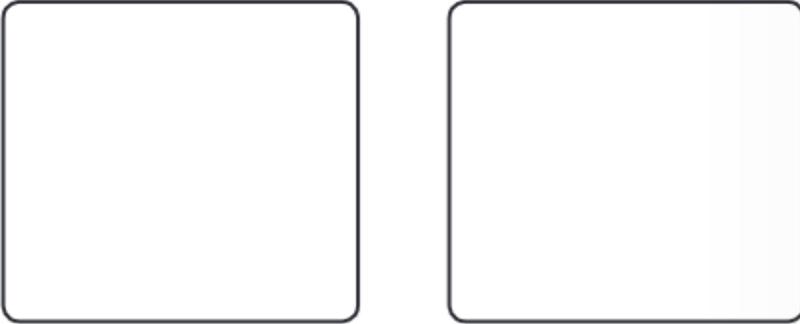
## On My Own

Name \_\_\_\_\_

Which sign matches the meaning? Circle  $>$ ,  $<$ , or  $=$ .

1. less than      2. equal to      3. greater than  
 $>$     $<$     $=$        $>$     $<$     $=$        $>$     $<$     $=$

How can you compare the numbers? Draw the tens and ones. Write  $>$ ,  $<$ , or  $=$ .

4.   
63      ○      61

5. **Error Analysis** Benny has 72 trading cards. Jordyn has 76 trading cards. Benny says they have the same number of cards. How do you respond to Benny?

How can you compare the numbers?

Write  $>$ ,  $<$ , or  $=$ .

6.  $39$  ○  $27$       7.  $88$  ○  $88$   
8.  $48$  ○  $49$       9.  $57$  ○  $75$

10. **Extend Your Thinking** The pet store sells 47 kinds of cat food. It sells 65 kinds of dog food. How can you compare the numbers using  $>$ ,  $<$ , or  $=$ ? Explain your thinking.

### Reflect

How did you work like a mathematician to compare numbers?

Math is... Mindset

How were you flexible in your thinking today?

# Unit Review

 Name \_\_\_\_\_

## Vocabulary Review

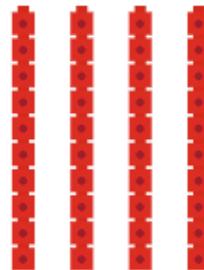
Use the vocabulary to complete each sentence.

compare                      equal to  
greater than                ten  
less than

1. The = sign means \_\_\_\_\_.
2. The < sign means \_\_\_\_\_.
3. A group of 10 ones is 1 \_\_\_\_\_.
4. To look at numbers and see which is greater is to \_\_\_\_\_.
5. The > sign means \_\_\_\_\_.

## Review

6. Look at the cubes.  
Complete the sentence.



\_\_\_\_\_ tens and 0 ones is \_\_\_\_\_.

7. What is another way to show the number 18?
- A. 1 ten and 1 one
  - B. 1 ten and 8 ones
  - C. 8 tens and 1 one

8. Look at the number.

75

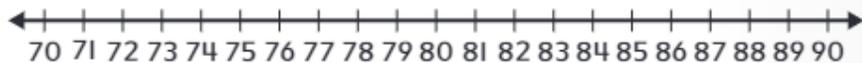
Complete the sentence.

\_\_\_\_\_ tens and \_\_\_\_\_ ones is \_\_\_\_\_.

9. Is the comparison true or false? Mark the correct answer.

	True	False
$17 = 17$	<input type="checkbox"/>	<input type="checkbox"/>
$39 < 93$	<input type="checkbox"/>	<input type="checkbox"/>
$53 > 81$	<input type="checkbox"/>	<input type="checkbox"/>

10. Use the number line.



Is the comparison true or false?

Mark the correct answer.

	True	False
80 is less than 77.		
78 is greater than 72.		
83 is greater than 86.		

11. How can you compare the numbers?

Write  $>$ ,  $<$ , or  $=$ .

26 ○ 29

12. How can you compare the numbers?

Write  $>$ ,  $<$ , or  $=$ .

51 ○ 51

13. How can you compare the numbers?

Write  $>$ ,  $<$ , or  $=$ .

63 ○ 48

## Performance Task

I. Jin's class takes a bus to the history museum. There are 27 students on the bus.

**Part A:** There are fewer adults than students on the bus. How many adults might be on the bus?

**Part B:** 10 people are allowed in an exhibit at one time. Can Jin's entire class go into an exhibit together? Why or why not?

**Part C:** How might Jin's teacher separate the class into groups so every student can go into an exhibit?

### Reflect

What are different ways you can use place value to show and compare numbers?

# Fluency Practice

Name \_\_\_\_\_

## Fluency Strategy

You can count on to help you add.

$$4 + 2 = ?$$



So,  $4 + 2 = 6$ .

1. How can you draw to show how to add  $7 + 1$ ?  
Write the number.

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

## Fluency Flash

How can you count on to add? Write the number.

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

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

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

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

## Fluency Check

What number shows a way to put together or break apart? Write the number.

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

6.  $7 + \underline{\quad} = 10$

5.  $10 = 1 + \underline{\quad}$

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

What is the sum? Count on to add.

8.  $6 + 1 = \underline{\quad}$

11.  $3 + 2 = \underline{\quad}$

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

12.  $7 + 1 = \underline{\quad}$

10.  $5 + 2 = \underline{\quad}$

13.  $1 + 2 = \underline{\quad}$

## Fluency Talk

What are some tools you could use to help you count on to add? Explain.

What are some tools you could use to help you break apart 10?

## Addition within 20: Facts and Strategies

### Focus Question

What strategies can I use to add?



Hi, I'm C.J.

I want to be a statistician. I asked my friends to pick their favorite sport. Most picked soccer. I want to know how many kids chose other favorite sports. I can use addition to crunch the numbers!



Name \_\_\_\_\_

## Missing Numbers in Shapes

Look at each puzzle. Find the missing numbers.

Puzzle 1

$$\triangle + \triangle = 10$$

Puzzle 2

$$\square + \square = 6$$

Puzzle 3

		10
		5
8	7	

Puzzle 4

		12
		9
8	—	

# Relate Counting to Addition



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

How well do you think you will understand today's lesson?

## Learn

How many frogs are there?



### Math is... Modeling

What is another way to show the frogs?

You can count.

1 2 3 4 5 6 7 8

You can add.

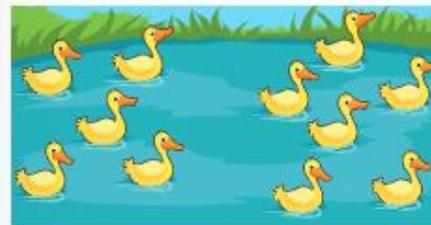
5 + 3 = 8

There are 8 frogs.

One way to find a **sum** is to add the **addends**.

## Work Together

How many ducks? Explain how you can add.

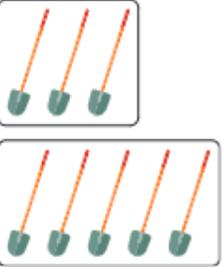


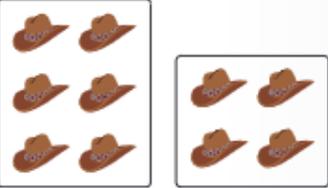
ducks

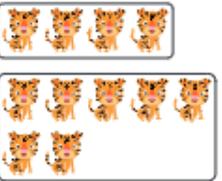
# On My Own

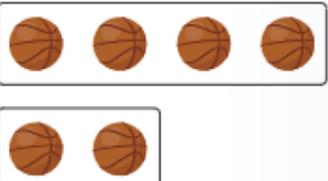
Name \_\_\_\_\_

How many? Write the number.

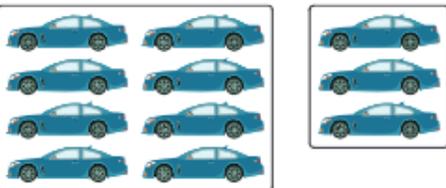
1.   
\_\_\_\_\_ shovels

2.   
\_\_\_\_\_ hats

3.   
\_\_\_\_\_ tigers

4.   
\_\_\_\_\_ basketballs

How many? Write numbers to match the picture.

5.   
\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ cars

6. How many books? Write numbers to match the picture.

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ books



7. How many leaves? Write the number.

  
\_\_\_\_\_ leaves

8. **Extend Your Thinking** Draw a picture to show how to add  $4 + 2$ .

## Reflect

Why is adding sometimes quicker than counting?

Math is... Mindset

How well have you understood today's lesson?

## Count On to Add



## Be Curious

What question could you ask?



## Math is... Mindset

What behaviors show that you are an active listener?

## Learn

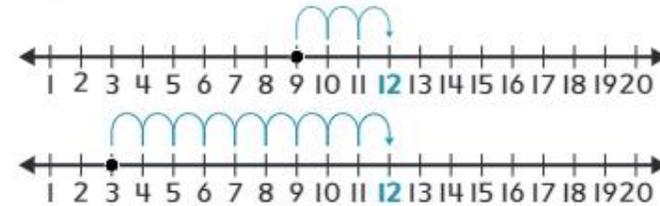
Hadley blows 9 bubbles. Anthony blows 3 bubbles. How many bubbles do they blow?

You can use a number line to count on.



Start with one addend. Count on by the other addend.

$$9 + 3 = 12$$



Counting on is quicker when you start with the greater addend.

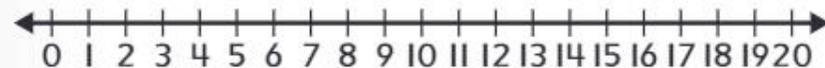
## Math is... Choosing Tools

What other tools can you use to find a sum?

## Work Together

What is the sum? Use the number line.

$$4 + 13 = \underline{\quad}$$

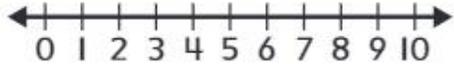


## On My Own

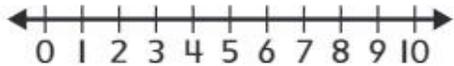
Name \_\_\_\_\_

How can you count on to add? Write the sum.

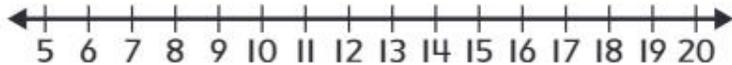
1.  $4 + 3 =$  \_\_\_\_\_



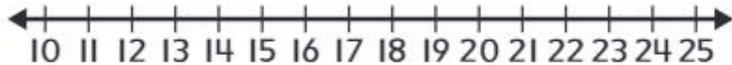
2.  $4 + 5 =$  \_\_\_\_\_



3.  $8 + 7 =$  \_\_\_\_\_



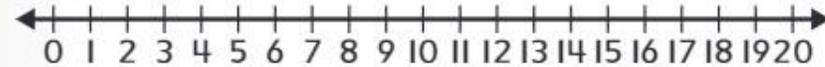
4.  $16 + 3 =$  \_\_\_\_\_



5.  $3 + 14 =$  \_\_\_\_\_

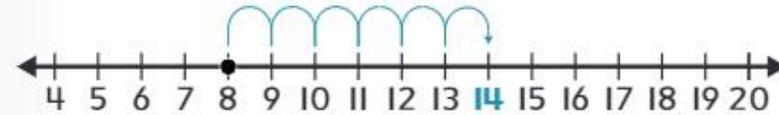


6. In one class, 2 students like baseball. In another class, 9 students like baseball. How many students in both classes like baseball?



\_\_\_\_\_ students

7. **Extend Your Thinking** Write the addends and sum that match the number line.



\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

### Reflect

How is a number line a useful tool for adding?

#### Math is... Mindset

How did you show that you were an active listener today?



## Be Curious

What do you notice?  
What do you wonder?



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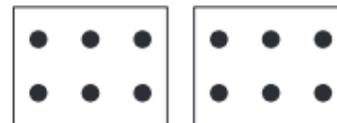
### Math is... Mindset

What helps you want to do your best work?

## Learn

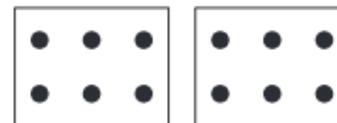
How many dots are there?

You can use **doubles** to add.



There are 6 dots on each card.

Both addends are 6.



$$6 + 6 = 12$$

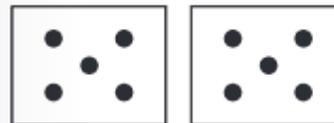
When you use doubles, the two addends are the same.

### Math is... Quantities

What does it mean to be a double?

## Work Together

How many dots are there? Explain how to add.



\_\_\_\_\_ dots

# On My Own

Name \_\_\_\_\_

How many dots are there? Write numbers to match the picture.

1.   
\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

2.   
\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

What is the sum?

3.  $2 + 2 =$  \_\_\_\_\_

4.  $7 + 7 =$  \_\_\_\_\_

5.  $10 + 10 =$  \_\_\_\_\_

6.  $6 + 6 =$  \_\_\_\_\_

7. **STEM Connection** Jin saw 5 dinosaur bones last year and 5 dinosaur bones this year. How many dinosaur bones did he see?

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ dinosaur bones



8. Tyler eats 2 grapes. Sarah eats 2 grapes. How many grapes do they eat?

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ grapes

9. **Extend Your Thinking** Draw to explain how to add doubles.

## Reflect

How do you know when you can use doubles to add?

**Math is... Mindset**

How have you done your best work?

## Near Doubles



## Be Curious

Tell me everything you can.



## Math is... Mindset

What behaviors show that you respect your classmates?

## Learn

How many cubes are there?

You can use doubles to help you add.



$3 + 4 = ?$

Add  $3 + 3 = 6$ .

Then add 1 more.

$3 + 4 = 7$



## Math is... Patterns

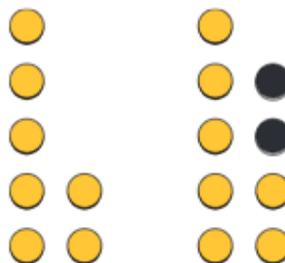
What do you notice when you add 1 or 2 to a double?

$7 + 9 = ?$

Add  $7 + 7 = 14$ .

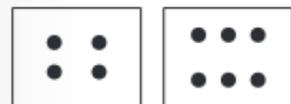
Then add 2 more.

$7 + 9 = 16$



## Work Together

Use doubles to add. Explain your thinking.



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

## On My Own

Name \_\_\_\_\_

How can you use doubles to add? Write the sum.

1.  $4 + 3 =$  \_\_\_\_\_

2.  $6 + 7 =$  \_\_\_\_\_

3.  $5 + 6 =$  \_\_\_\_\_

4.  $7 + 8 =$  \_\_\_\_\_

5.  $3 + 5 =$  \_\_\_\_\_

6.  $5 + 7 =$  \_\_\_\_\_

7.  $7 + 9 =$  \_\_\_\_\_

8.  $4 + 6 =$  \_\_\_\_\_

9. **STEM Connection** C.J. collects data about players on two teams.

Players	
Bulldogs	8
Pumas	10



How many players are on the two teams?

\_\_\_\_\_ players

10. **Extend Your Thinking** The coach has 4 baseballs. She gets 5 more baseballs. How many baseballs does the coach have now?

Write an equation to match the problem.

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

### Reflect

How do you know when a double can help you add?

#### Math is... Mindset

How have you shown that you respect your classmates?

# Make a 10 to Add



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

What feelings do you have about learning math?

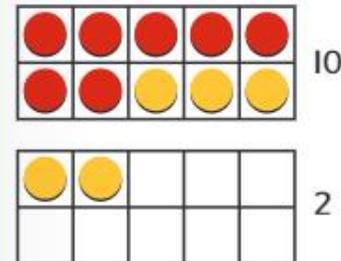
## Learn

Zoe has 7 markers.  
Max has 5 markers.



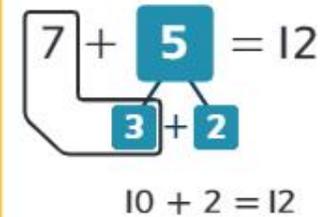
How many markers do they have?  
You can make a 10 to add  $7 + 5$ .

One way is to use ten-frames.



$$10 + 2 = 12$$

Another way is to use **number bonds**.



### Math is... Connections

Why can you use the sum of  $10 + 2$  to find the sum of  $7 + 5$ ?

## Work Together

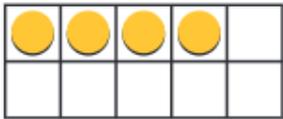
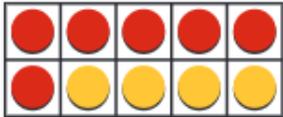
How can you make a 10 to add  $3 + 8$ ? Show your thinking.

# On My Own

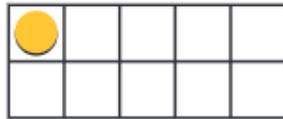
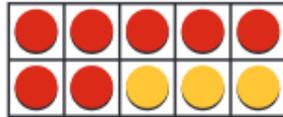
Name \_\_\_\_\_

What is the sum?

1.  $6 + 8 =$  \_\_\_\_\_

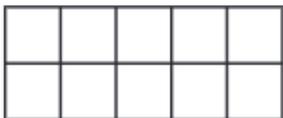
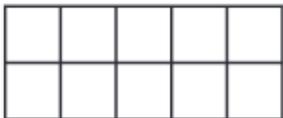


2.  $7 + 4 =$  \_\_\_\_\_

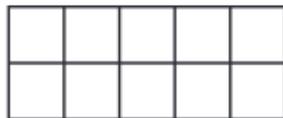
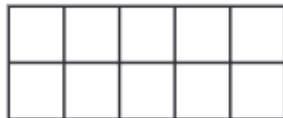


What is the sum? Show how to make a 10 to add.

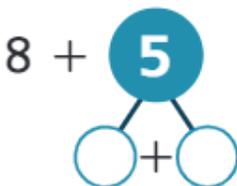
3.  $7 + 8 =$  \_\_\_\_\_



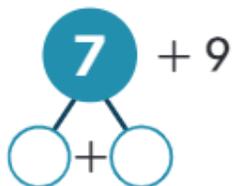
4.  $9 + 4 =$  \_\_\_\_\_



5.  $8 + 5 =$  \_\_\_\_\_



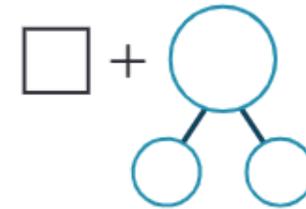
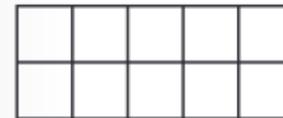
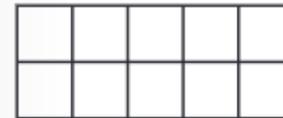
6.  $7 + 9 =$  \_\_\_\_\_



7. Beth has 6 baseballs. She finds 9 more baseballs. How many baseballs does she have? Draw to show your thinking.

\_\_\_\_\_ baseballs

8. **Extend Your Thinking** Show how to add  $6 + 7$  in two different ways.



## Reflect

How can making a 10 help you add?

**Math is... Mindset**

How did you feel about learning math today?

# Choose Strategies to Add



## Be Curious

What do you notice?  
What do you wonder?



**Math is... Mindset**

How can you understand a problem situation?

## Learn

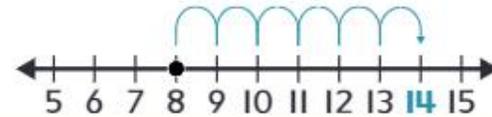
Dan has 6 marbles.  
Linda has 8 marbles.

How many marbles do they have in all?

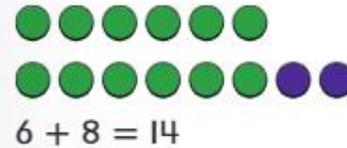
You can add  $6 + 8$  in different ways.



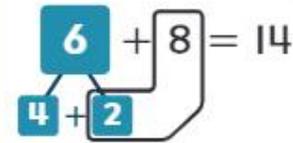
You can count on.



You can use doubles.



You can make a 10.



You can add two numbers in different ways.

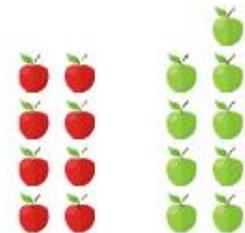
**Math is... Choosing Tools**

What tools can you use to add?

## Work Together

What is the sum of  $8 + 9$ ?  
Explain how you added.

\_\_\_\_\_ apples



## On My Own

Name \_\_\_\_\_

What is the sum? Tell or show how you added.

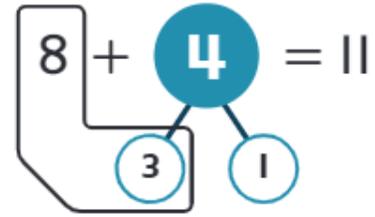
1.  $6 + 7 =$  \_\_\_\_\_      2.  $8 + 9 =$  \_\_\_\_\_

3.  $4 + 7 =$  \_\_\_\_\_      4.  $7 + 7 =$  \_\_\_\_\_

5. Evan skis down a hill 9 times. Laura skis down the hill 4 times. How many times do they ski down the hill?

\_\_\_\_\_ times

6. **Error Analysis** Mel makes a 10 to add  $8 + 4$ . How can you help Mel fix his mistake? Show or explain your thinking.



7. **Extend Your Thinking** Explain why you chose your strategy for exercise 1.

### Reflect

Which way of adding do you think is most useful? Why?

#### Math is... Mindset

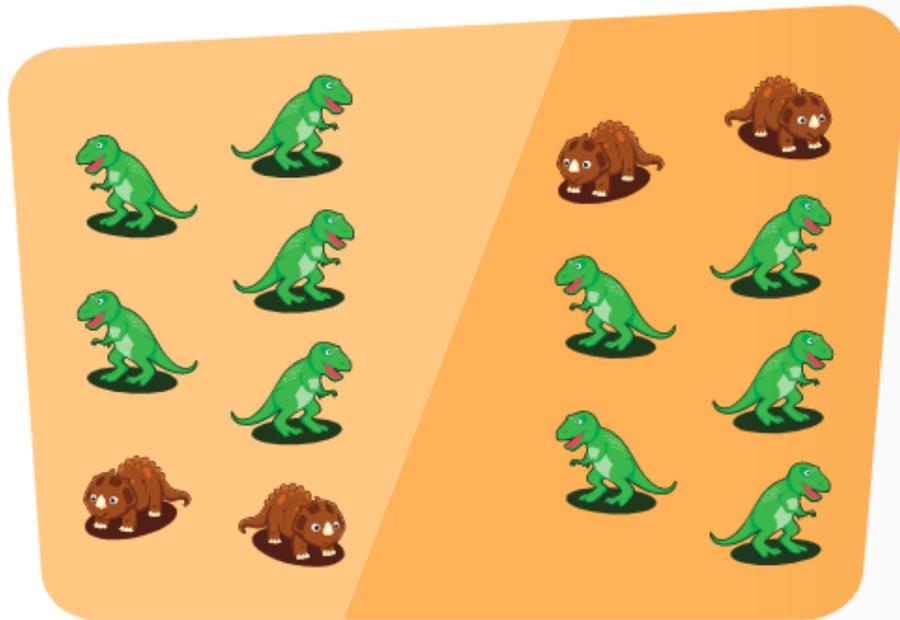
What helped you understand a problem situation?

## Use Properties to Add



## Be Curious

How are they the same?  
How are they different?



## Math is... Mindset

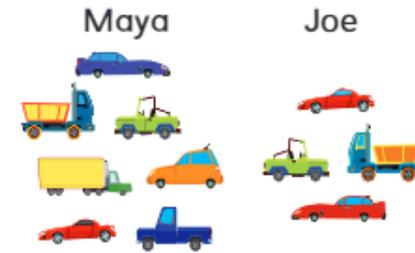
What helps you feel calm when you are angry?

## Learn

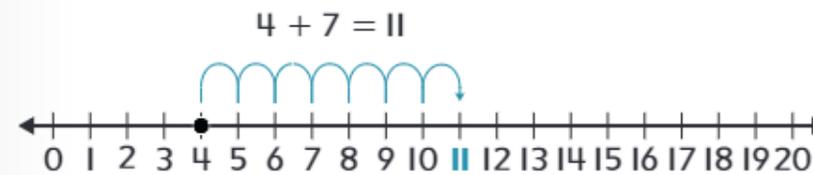
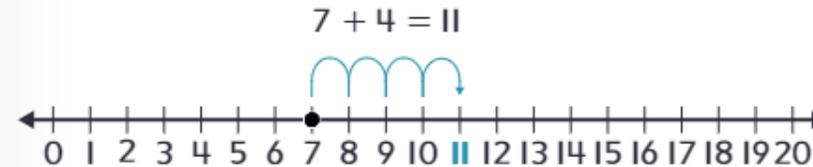
Maya has 7 toy cars.

Joe has 4 toy cars.

How many toy cars do they have in all?



You can add 7 and 4 in any order.



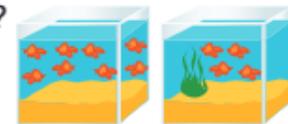
You can add two addends in any order. The sum is the same.

## Math is... Choosing Tools

What other tools can you use to add  $7 + 4$ ?

## Work Together

How many fish are in the two bowls?  
Gene adds  $8 + 4$ . Toby adds  $4 + 8$ .  
Will their sums be the same?  
Explain.



## On My Own

Name \_\_\_\_\_

What is the sum?

1.  $5 + 3 =$  \_\_\_\_\_

$3 + 5 =$  \_\_\_\_\_

2.  $1 + 9 =$  \_\_\_\_\_

$9 + 1 =$  \_\_\_\_\_

3.  $6 + 7 =$  \_\_\_\_\_

$7 + 6 =$  \_\_\_\_\_

4.  $2 + 4 =$  \_\_\_\_\_

$4 + 2 =$  \_\_\_\_\_

5. Which has the same sum as  $3 + 6$ ?

A.  $2 + 6$

B.  $4 + 3$

C.  $6 + 3$

6. What is another way to add  $8 + 1$  that has the same sum? Write the numbers.

\_\_\_\_\_ + \_\_\_\_\_

7. **STEM Connection** Erik has 6 sports video games and 4 action video games. How many sports and action games does he have? Write numbers to show two ways to add.

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



8. **Extend Your Thinking** Why does  $5 + 2$  have the same sum as  $2 + 5$ ? Draw to show your thinking.

## Reflect

Why can numbers be added in any order?

### Math is... Mindset

How have you calmed yourself when you were angry?

# Solving Problems

Name \_\_\_\_\_

Solve the problem.

1. Sam has 5 crayons. His friend gives him 6 more.  
How many crayons does Sam have now?

Circle the correct answer.

5 6 10 11 15 16

Tell or show why.

- 
2. Ali has 8 red balloons and 6 blue balloons.  
How many balloons does Ali have in all?

Circle the correct answer.

6 8 13 14 16 18

Tell or show why.

3. 4 boys and 9 girls are on the playground.  
How many children are on the playground?

Circle the correct answer.

4 9 12 13 14 19

Tell or show why.

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## Reflect On Your Learning

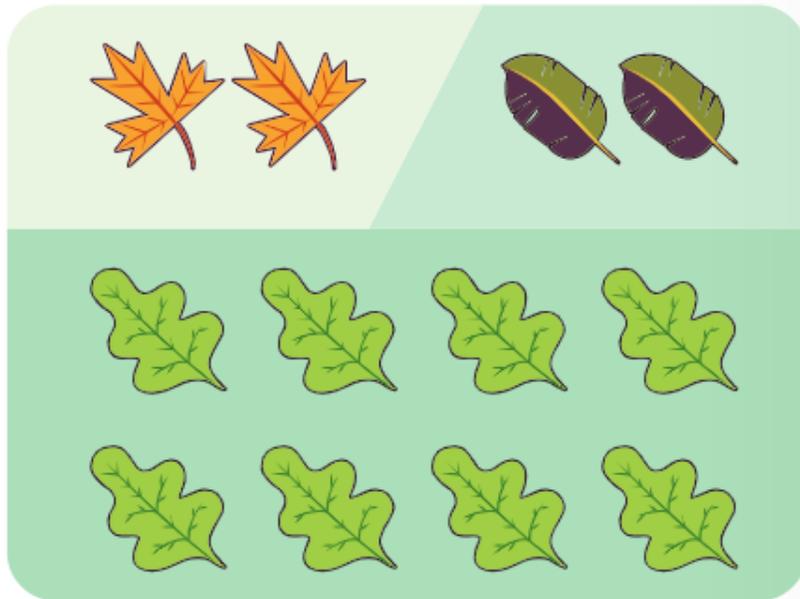


# Add Three Numbers



## Be Curious

Tell me everything you can.



### Math is... Mindset

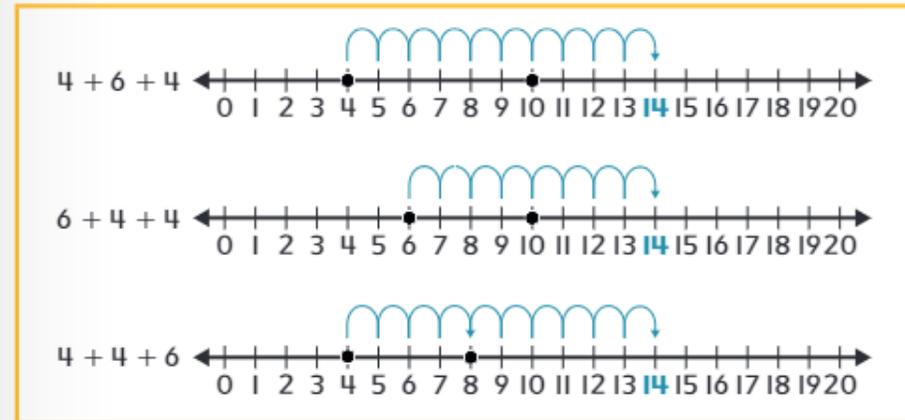
What are some ways you can connect with your classmates?

## Learn

Ebony fills 4 bags. Mason fills 6 bags. Raja fills 4 bags.



How many bags do they fill?



You can add three addends in any order. The sum is the same.

### Math is... Quantities

How is each part of the problem shown on the number line?

### Work Together

Tim has 9 beads. Leah has 1 bead. Sye has 1 bead.

How many beads do they have?  beads



## On My Own

Name \_\_\_\_\_

Which groups of leaves will you add first?  
Circle the groups. Then write the sum.

1.



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

2.



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

What is the sum?

3.  $4 + 1 + 6 = \underline{\quad}$       4.  $1 + 2 + 9 = \underline{\quad}$

5.  $4 + 8 + 2 = \underline{\quad}$       6.  $8 + 6 + 6 = \underline{\quad}$

7. **Error Analysis** Rainn has 8 brown leaves, 7 orange leaves, and 1 red leaf. Rainn says he has 15 leaves. How can you help Rainn add his leaves?



8. Emma has 4 footballs, Ken has 9 footballs, and Aki has 4 footballs. How many footballs do they have?  
 $\underline{\quad}$  footballs

9. **Extend Your Thinking** What are two other ways to order the addends  $3 + 7 + 3$  to find their sum?

### Reflect

How can you decide how to add three numbers?

**Math is...** Mindset

How did you connect with your classmates today?

# Find an Unknown Number in an Addition Equation



## Be Curious

Todd has some pieces of fruit in a bowl.  
His mom puts more in.  
Now there are more pieces of fruit.  
How many did Todd's mom put in?

### Math is... Mindset

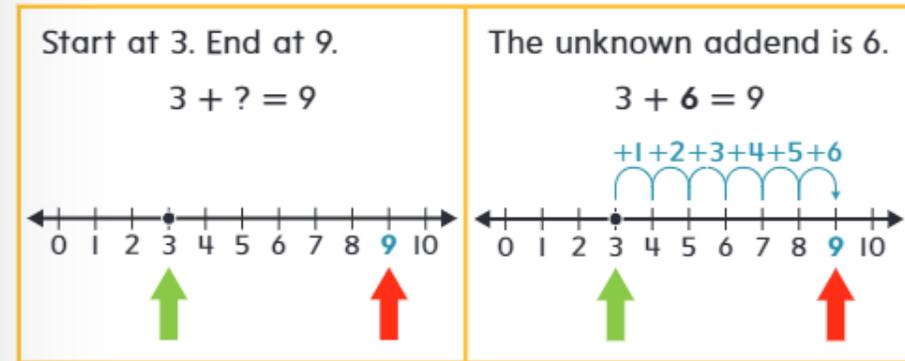
What helps you solve a problem?

## Learn

Todd has 3 pieces of fruit in a bowl. His mom puts more in. Now there are 9 pieces of fruit. **How many pieces of fruit did Todd's mom put in?**



You can find the **unknown** addend.



You can use one addend and the sum to find an unknown addend.

### Math is... Making Sense

How do you know to add to show the problem?

## Work Together

Ama has 7 crayons.  
Jack gives her some crayons.  
Now Ama has 12 crayons.



How many crayons does Jack give her?

\_\_\_\_\_ crayons

## On My Own

Name \_\_\_\_\_

What is the unknown addend?

1.  $5 + \underline{\quad} = 8$

2.  $6 + \underline{\quad} = 16$

3.  $\underline{\quad} + 8 = 17$

4.  $\underline{\quad} + 6 = 12$

5.  $8 + \underline{\quad} = 12$

6.  $\underline{\quad} + 9 = 18$

7.  $10 + \underline{\quad} = 20$

8.  $\underline{\quad} + 3 = 7$

**9. STEM Connection** C.J. counts 8 points scored. Then he counts some more points. He counts 15 points in all. How many more points did he count?



Which matches the problem?  
Circle your answer.

$8 + 15 = ?$        $8 + ? = 15$

What is the unknown addend?

C.J. counts  $\underline{\quad}$  more points.

**10. Extend Your Thinking** Draw a picture to show  $3 + ? = 12$ .

## Reflect

How can you find the unknown addend when you know the other addend and the sum?

**Math is... Mindset**

How have you solved a problem?

# Understand the Equal Sign



## Be Curious

What do you notice?  
What do you wonder?



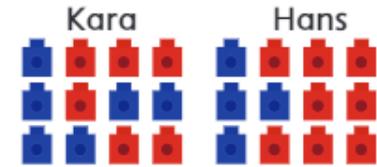
### Math is... Mindset

What helps you stay focused on your work?

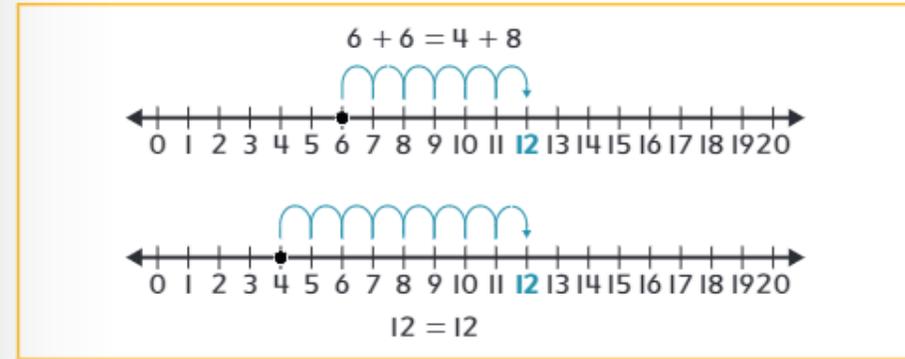
## Learn

Kara has 6 blue cubes and 6 red cubes.

Hans has 4 blue cubes and 8 red cubes.



How can you show that Kara and Hans have an equal number of cubes?



The **equal sign (=)** means the amounts on both sides are equal.

### Math is... Connections

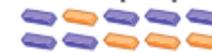
How do the number lines show that  $6 + 6$  is equal to  $4 + 8$ ?

### Work Together

John has 7 orange erasers and 3 purple erasers.



Mia has 4 orange erasers and 6 purple erasers.



How can you show that John and Mia have an equal number of erasers?

# On My Own

Name \_\_\_\_\_

Are the amounts the same? Write numbers to match the pictures.

1. Akiko has 3 orange marbles and 8 blue marbles.



3 + \_\_\_\_\_ = \_\_\_\_\_

- Tom has 5 orange marbles and 6 blue marbles.



\_\_\_\_\_ + 6 = \_\_\_\_\_

2. Nick has 6 red cars and 4 yellow cars.



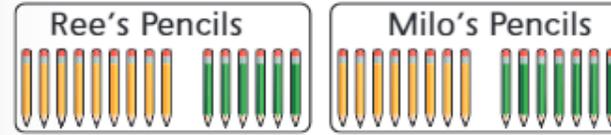
\_\_\_\_\_ + 4 = \_\_\_\_\_

- Sue has 5 red cars and 5 yellow cars.



5 + \_\_\_\_\_ = \_\_\_\_\_

3. **Error Analysis** Milo says he has more pencils than Ree.



How can you show Milo that he has the same number of pencils as Ree?

4. **Extend Your Thinking** Draw a picture to show that  $8 + 8 = 10 + 6$  is true.

## Reflect

When would you use an equal sign?

### Math is... Mindset

What helped you stay focused on your work?

# True Addition Equations



## Be Curious

Is it always true?

$$2 + 3 = 4 + 1$$

### Math is... Mindset

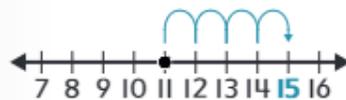
How can you show you understand how others are feeling?

## Learn

Is this true or false?  $7 + 2 \stackrel{?}{=} 4 + 3$

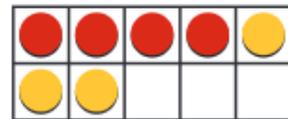
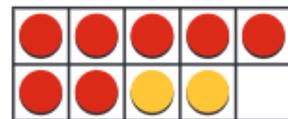
You can compare the amounts to show if the **equation** is true or false.

$$8 + 7 \stackrel{?}{=} 11 + 4$$



This equation is true.

$$7 + 2 \stackrel{?}{=} 4 + 3$$



This equation is false.

An equation is true when the amounts on both sides are equal.

### Math is... Choosing Tools

What is another tool you could use?

## Work Together

Is this equation true or false? Explain.

$$5 + 3 \stackrel{?}{=} 2 + 6$$

## On My Own

Name \_\_\_\_\_

Is the equation True or False? Circle the answer.

1.  $3 + 6 = 9$

True      False

2.  $9 + 2 = 17$

True      False

3.  $6 + 8 = 10 + 4$

True      False

4.  $8 = 7 + 1$

True      False

5.  $9 + 9 = 8 + 9$

True      False

6.  $2 + 7 = 5 + 3$

True      False

7. Is the equation  $2 + 9 = 7 + 4$  true? Write Yes or No.

\_\_\_\_\_

8. **Error Analysis** Lila says the equation  $8 + 3 = 6 + 5$  is false. Do you agree? Show your thinking.

9. Dan says the equation  $5 + 3 = 2 + 7$  is true. Rami says it is false. Is it true or false? Show your thinking.

10. **Extend Your Thinking** What numbers make the equations true? Write numbers to make two different true equations.

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

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

### Reflect

How can you decide if an equation is true?

#### Math is... Mindset

How have you shown you understood how others were feeling?

# Unit Review

Name \_\_\_\_\_

## Vocabulary Review

Use the vocabulary to complete each sentence.

addend

equal sign

unknown

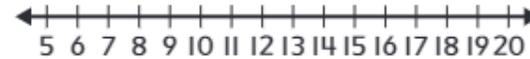
doubles

equation

1. An addition \_\_\_\_\_ includes an equal sign (=).
2. A missing number in an equation is the \_\_\_\_\_.
3. The amounts on both sides of an \_\_\_\_\_ are equal.
4. An \_\_\_\_\_ is any number being added to another number.
5. Two addends that are the same number are \_\_\_\_\_.

## Review

6. Janet has 9 sweaters. She buys 5 more sweaters. How many sweaters does Janet have now? Count on to add.

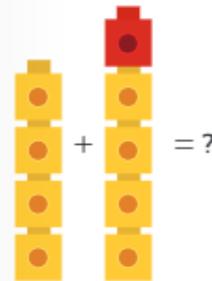


- A. 11                      B. 13  
C. 14                      D. 17

7. A farm has 12 cows and 6 roosters. How many total cows and roosters are there?

- A. 6                      B. 14  
C. 15                      D. 18

8. Which doubles fact helps you solve the addition problem shown in the picture?



- A.  $2 + 2 = 4$                       B.  $3 + 3 = 6$   
C.  $1 + 1 = 2$                       D.  $4 + 4 = 8$

9. How many more triangles are needed to make a 10?



- A. 3                      B. 4  
C. 6                      D. 7

10. Mac makes 9 baskets. Raul makes 6 baskets. Mac says  $9 + 6 = 15$  shows how many baskets they make in all. What is another way to show how many baskets they make?

- A.  $6 + 9 = 15$       B.  $6 + 15 = 9$   
C.  $9 + 9 = 15$       D.  $9 + 15 = 6$

11. Choose the missing number in each number sentence.

	0	1	2	3
$12 + ? = 15$				
$8 = 7 + ?$				
$16 = 14 + ?$				
$? + 11 = 11$				

## Performance Task

A statistician records the numbers of times he picks two dominos with the same sum.

On the first round, he picks these dominos.



**Part A:** Do the dominoes have the same sum? Explain.

**Part B:** Draw a domino that has the same sum as the one below. Then write an equation comparing the sums.



\_\_\_ + \_\_\_ = \_\_\_ + \_\_\_

**Part C:** If you flip the domino around, does the sum change? Explain.

### Reflect

What strategies can I use to add?

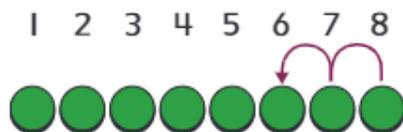
## Fluency Practice

Name \_\_\_\_\_

### Fluency Strategy

You can count back to help you subtract.

$$8 - 2 = ?$$



So,  $8 - 2 = 6$ .

1. How can you draw counters and a jump or jumps to show  $5 - 1$ ? Write the number.

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

### Fluency Flash

How can you count back to subtract?

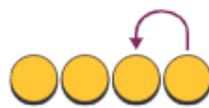
Write the number.

2.



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

3.



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

## Fluency Check

What number shows a way to put together or break apart? Write the number.

4.  $8 + \underline{\quad} = 10$

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

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

7.  $1 + \underline{\quad} = 10$

What is the sum or difference? Write the number.

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

12.  $5 + 2 = \underline{\quad}$

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

13.  $4 - 2 = \underline{\quad}$

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

14.  $9 - 1 = \underline{\quad}$

11.  $6 - 2 = \underline{\quad}$

15.  $6 + 1 = \underline{\quad}$

## Fluency Talk

How can you count back to subtract  $7 - 2$ ?  
Show and explain your work.

When would you use counting on in a problem?  
How is it the same and different from counting back?

Name \_\_\_\_\_

## Subtraction within 20: Facts and Strategies

### Focus Question

What strategies can I use to subtract?

**Hi! I'm Jordan!**

I want to be an animal trainer. Some animal trainers work at zoos. They make sure the animals get the right amount of food. How much do you think an elephant eats? Chow down, fellas!

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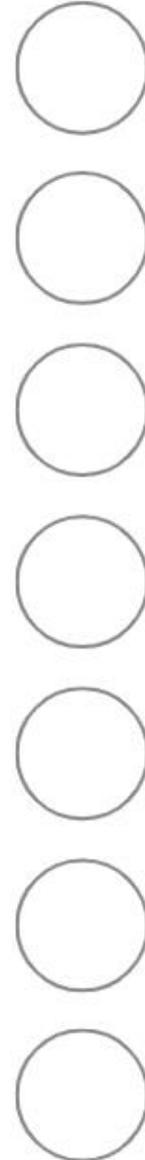


## Take the Last Counter

### Rules

1. Place 1 counter on each of the 7 circles.
2. Player A goes first.  
Player A must take away 1 or 2 counters from the circles, starting from the top.
3. Player B must now take away 1 or 2 counters from those that are left, from the top.
4. Play continues with each player taking turns to take away 1 or 2 counters from the circles.
5. The player to take away the last counter wins.

(A player may win by taking away 2 counters on the last turn.)



# Relate Counting to Subtraction



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

What helps you make good decisions?

## Learn

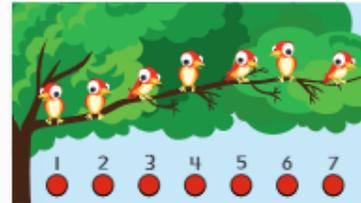
7 birds are in a tree.  
2 fly away.

How many birds are left?

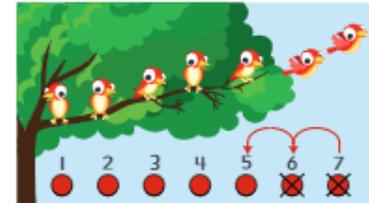


You can count back to **subtract**.

7 birds are in a tree.



2 birds fly away.



$$7 - 2 = 5$$

One way to subtract is to count back from the **total** to find the **difference**.

### Math is... Connections

What does each counter left show?

## Work Together

There are 9 fish.  
3 fish swim away.  
How many fish are left?

\_\_\_\_\_ fish



# On My Own

Name \_\_\_\_\_

How many are left? Solve the equation.



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



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

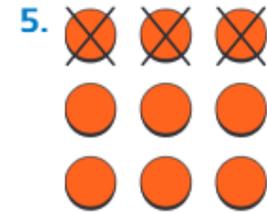


$11 - 2 = \underline{\quad}$

What equation matches the picture?  
Complete the equation.



$12 - \underline{\quad} = \underline{\quad}$



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

6. **Extend Your Thinking** Draw a picture to show how to subtract  $10 - 7$ .

## Reflect

How is counting back like subtracting?

**Math is... Mindset**

How can you know that you made good decisions?

# Count Back to Subtract



## Be Curious

What do you notice?  
What do you wonder?



### Math is... Mindset

Why is it important to speak clearly and concisely?

## Learn

There are 12 bottles.  
Bo knocks down 5 bottles.  
How many bottles are still standing?



A number line can help you count back to subtract.

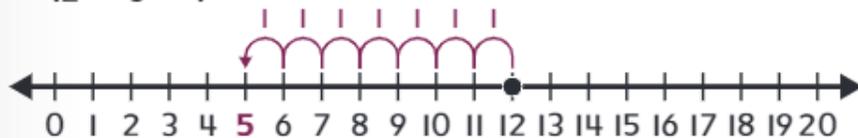
- **One Way** Start at 12.  
Count back by 5.  
 $12 - 5 = 7$

### Math is... Quantities

Why do you start at 12?



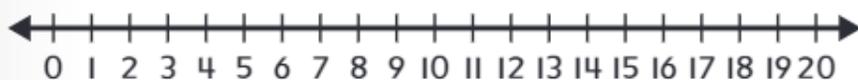
- **Another Way** Start at 12.  
Count back to 5.  
 $12 - 5 = 7$



You can count back to subtract.

## Work Together

How can you count back to subtract  $18 - 5$ ?  
Use the number line.



## On My Own

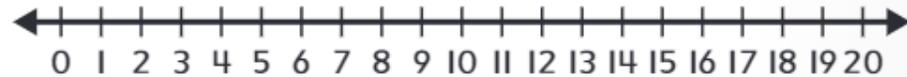
Name \_\_\_\_\_

How can you count back to subtract?  
Use the number line. Write the difference.

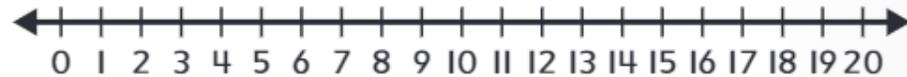
1.  $9 - 3 =$  \_\_\_\_\_



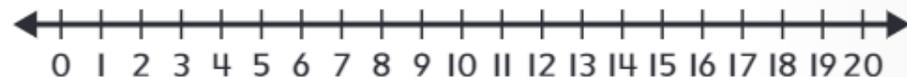
2.  $11 - 4 =$  \_\_\_\_\_



3.  $12 - 7 =$  \_\_\_\_\_



4.  $14 - 8 =$  \_\_\_\_\_



What is the difference?

5.  $13 - 9 =$  \_\_\_\_\_

6.  $19 - 6 =$  \_\_\_\_\_

7. **STEM Connection** C.J. asks 17 students to say their favorite pet. 3 students answer C.J. How many students did not answer?  
\_\_\_\_\_ students



8. **Extend Your Thinking** Tell or show how to use a number line to subtract  $13 - 8$ .

### Reflect

How do number lines help you subtract?

#### Math is... Mindset

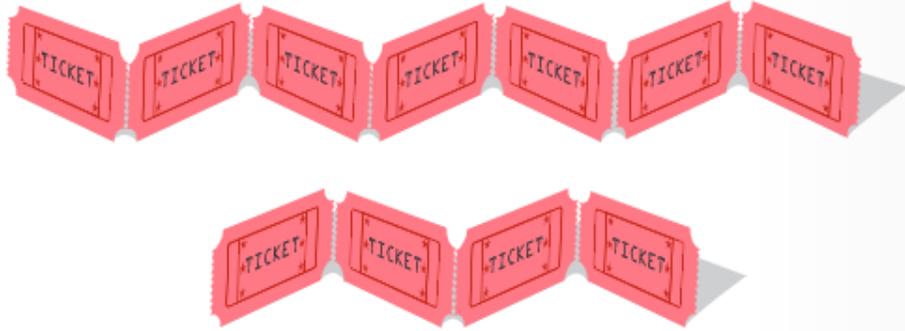
How did speaking clearly and concisely help you share your ideas?

# Count On to Subtract



## Be Curious

What question could you ask?



### Math is... Mindset

How can your strengths help you learn today?

## Learn

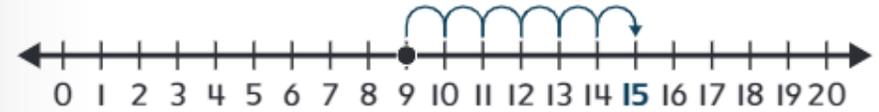
How can you subtract  $15 - 9$ ?



You can count on to subtract.

Start at 9. Count on to 15.

$$15 - 9 = 6$$



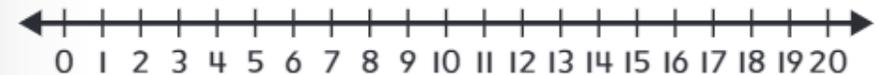
### Math is... Connections

What other operation could you use?

## Work Together

How can you count on to subtract  $12 - 7$ ?

Use the number line.

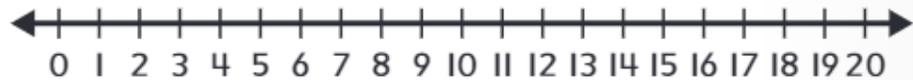


## On My Own

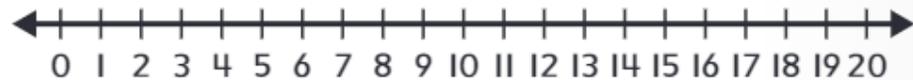
Name \_\_\_\_\_

How can you count on to subtract? Use the number line. Write the difference.

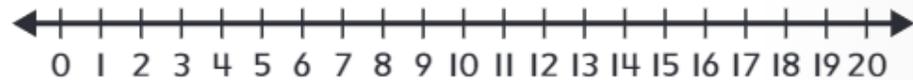
1.  $9 - 6 = \underline{\quad}$



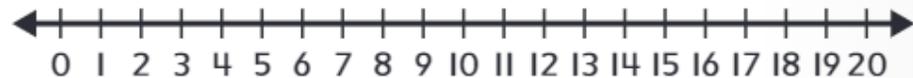
2.  $13 - 8 = \underline{\quad}$



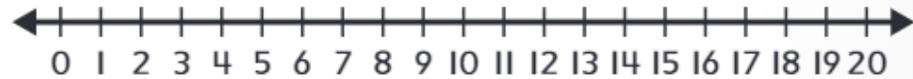
3.  $11 - 5 = \underline{\quad}$



4.  $14 - 9 = \underline{\quad}$



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



What is the difference?

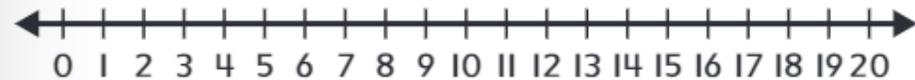
6.  $12 - 9 = \underline{\quad}$

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

8. Gehrman has 16 action figures. He gives 4 to his friend. How many action figures does he have left?

         action figures

9. **Extend Your Thinking** How can you use a number line to count on to find a difference? Show an example.



### Reflect

How is counting on to subtract like counting on to add?

**Math is...** **Mindset**

How did your strengths help you learn today?

# Make a 10 to Subtract



## Be Curious

Tell me everything you can.



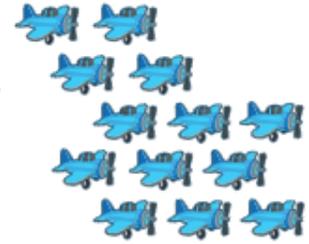
### Math is... Mindset

How can different ideas help you learn better?

## Learn

Ray has 13 toy planes. He gives 5 to Cia.

How many toy planes does Ray have left?



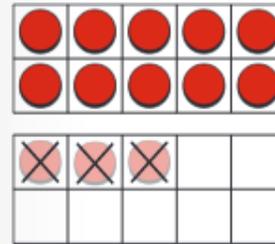
You can make a 10 to subtract.

$$13 - 5 = ?$$

Break apart 5 to make a 10.

$$5 = 3 + 2$$

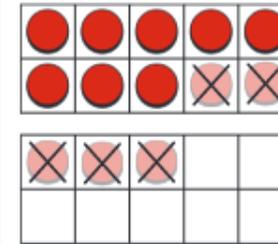
$$13 - 3 = 10$$



$$13 - 3 = 10$$

Then subtract 2.

$$10 - 2 = 8$$



Ray has 8 toy planes.

### Math is... Thinking

What do the 3 and 2 represent?

One way to subtract is to make a 10.

### Work Together

How can you make a 10 to subtract  $17 - 8$ ?

# On My Own

Name \_\_\_\_\_

How can you make a 10 to subtract?  
Solve the equation.

1.  $15 - 8 = \underline{\quad}$


2.  $14 - 6 = \underline{\quad}$


3.  $12 - 8 = \underline{\quad}$

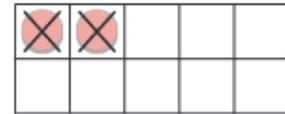
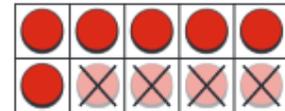

4.  $11 - 4 = \underline{\quad}$


What is the difference?

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

6.  $13 - 8 = \underline{\quad}$

7. **Error Analysis** Jorge uses ten-frames to subtract  $12 - 5$ . How can you help him find the difference?



$12 - 2 = 10$

$10 - 4 = 6$

8. **Extend Your Thinking** There are 14 boats. 7 boats sail away. How many boats are left? Make a 10 to find the difference. Then solve a different way. Show your work.

\_\_\_\_\_ boats

## Reflect

How can making a 10 help you solve a subtraction equation?

### Math is... Mindset

How have different ideas helped you learn better?

# Use Near Doubles to Subtract



## Be Curious

How are they the same?  
How are they different?



### Math is... Mindset

What other ways can you think of to solve a problem?

## Learn

Jana has 14 crayons. She gives 6 crayons to her friend.

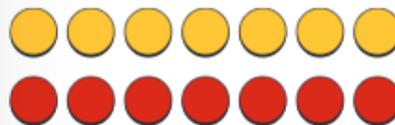


How many crayons does Jana have left?

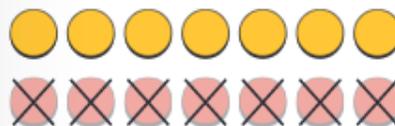
You can use doubles to help you subtract.

Doubles

$$7 + 7 = 14$$

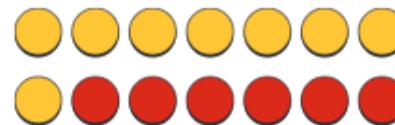


So,  $14 - 7 = 7$ .

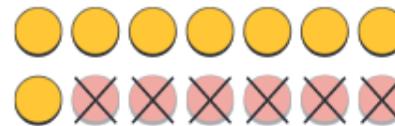


Near Doubles

$$8 + 6 = 14$$



So,  $14 - 6 = 8$ .



One way to subtract is to use doubles and near doubles.

### Math is... Modeling

What do the counters represent?

## Work Together

Micha has 16 markers. He gives 9 markers to Tom.  
How many markers does Micha have left?  
Use doubles to solve. Show your thinking.

## On My Own



Name \_\_\_\_\_

What is the difference? Write a double to help you subtract.

1.  $12 - 6 =$  \_\_\_\_\_

2.  $8 - 4 =$  \_\_\_\_\_

3.  $18 - 9 =$  \_\_\_\_\_

4.  $10 - 5 =$  \_\_\_\_\_

What is the difference? Explain how you used a double to help you subtract.

5.  $12 - 7 =$  \_\_\_\_\_

6.  $11 - 5 =$  \_\_\_\_\_

7. **STEM Connection** Jordan sees 12 dolphins at the zoo. 6 dolphins are swimming and the rest are sleeping. How many dolphins are sleeping?

\_\_\_\_\_ dolphins



8. Rajesh draws 9 pictures. He gives 5 pictures to his friends. How many pictures does Rajesh have now?

\_\_\_\_\_ pictures

9. **Extend Your Thinking** Explain how you can use doubles to help you subtract  $10 - 6$ .

## Reflect

What ways have you learned so far to subtract?

**Math is... Mindset**

What ways have you used to solve a problem?

## Use Addition to Subtract



## Be Curious

What do you notice?  
What do you wonder?



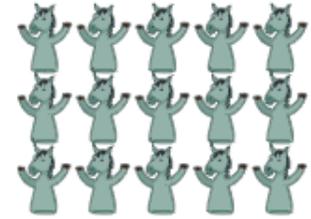
## Math is... Mindset

What can you do today to help build a good relationship with a classmate?

## Learn

Bea has 15 toy horses. She gives 7 toy horses to Max.

How many toy horses does Bea have now?



You can use addition to help you subtract.

$$15 - 7 = ?$$

Write an addition equation with an **unknown addend**.

$$7 + ? = 15$$

Find the unknown addend.



$$7 + 8 = 15, \text{ so } 15 - 7 = 8.$$

You can write a subtraction equation as an unknown addend equation.

## Math is... Structure

How is subtraction like addition?

## Work Together

How can you add to subtract  $12 - 8$ ?  
Show your work.

## On My Own

Name \_\_\_\_\_

How can you use the addition equation to help you subtract? Write the difference.

1.  $8 + 7 = 15$ , so

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

2.  $3 + 6 = 9$ , so

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

What addition equation can help you subtract?  
Write the addition equation. Write the difference.

3.  $11 - 5 = \underline{\quad}$

4.  $15 - 8 = \underline{\quad}$

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

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

7.  $13 - 9 = \underline{\quad}$

8.  $14 - 5 = \underline{\quad}$

9. **STEM Connection** C.J. asks 16 friends to name their favorite baseball team. 9 friends answer. How many friends did not answer?

\_\_\_\_\_ friends



10. **Extend Your Thinking** How you can add to help you subtract  $13 - 8$ ?

## Reflect

How can you use addition to subtract?

### Math is... Mindset

How were you able to build a good relationship with a classmate today?

## Showing Problems with Equations

Name \_\_\_\_\_

1. Mari has 11 flowers. Her friend gives her 6 more flowers. How many flowers does Mari have now?

Show the problem using the ten-frames.



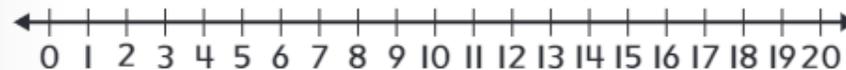
Circle the equation that shows the problem.

$11 + 6 = \underline{\quad}$       OR       $11 - 6 = \underline{\quad}$

Tell or show why you chose that equation.

2. Sarah holds 13 balloons. Then 5 balloons float away. How many balloons does Sarah have now?

Show the problem using the number line.



Circle the equation that shows the problem.

$13 - 5 = \underline{\quad}$       OR       $13 + 5 = \underline{\quad}$

Tell or show why you chose that equation.

### Reflect On Your Learning

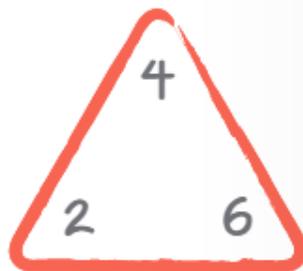
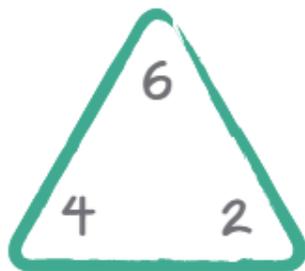


# Use Fact Families to Subtract



## Be Curious

How are they the same?  
How are they different?



### Math is... Mindset

What helps you stay focused on your work?

## Learn

How can you make equations using these numbers?



You can use a **fact triangle** to make **related facts**.

The facts in a **fact family** all use the same three numbers.

$$5 + 3 = 8$$

$$3 + 5 = 8$$

$$8 - 5 = 3$$

$$8 - 3 = 5$$



You can use a related fact to complete an equation.

### Math is... Explaining

How are the numbers in the fact triangle related?

Numbers in a fact triangle are related.

## Work Together

How can you use a related fact to complete the equation?

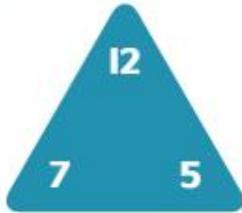
$$15 - ? = 6$$

## On My Own

Name \_\_\_\_\_

Complete the related facts for the fact triangle.

1.



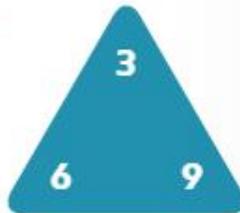
$$7 + \underline{\quad} = 12$$

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

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

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

2.



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

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

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

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

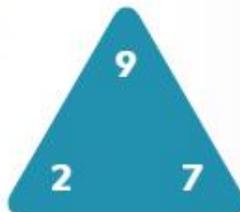
What is the fact family for the fact triangle?

Write the facts.

3.



4.



What two facts complete the fact family?

Write the two facts.

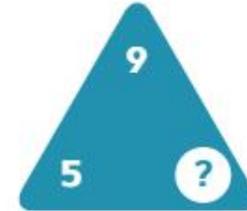
5.  $6 + 7 = 13$

$$7 + 6 = 13$$

6.  $9 + 2 = 11$

$$11 - 9 = 2$$

7. **Error Analysis** Brenda says different numbers can complete the fact triangle. Do you agree? Explain.



8. **Extend Your Thinking** The greatest number in a fact family is 7. What could the fact family be?

### Reflect

How can you make a fact triangle?

**Math is... Mindset**

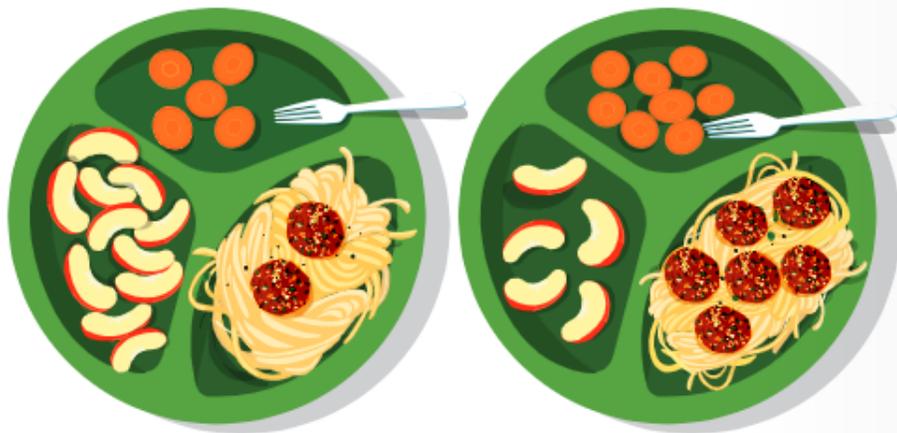
What helped you stay focused on your work?

# Find an Unknown Number in a Subtraction Equation



## Be Curious

How are they the same?  
How are they different?



### Math is... Mindset

How can you show respect for your classmates?

## Learn

Liz had 14 trading cards. She lost some cards. Now she has 8 trading cards.



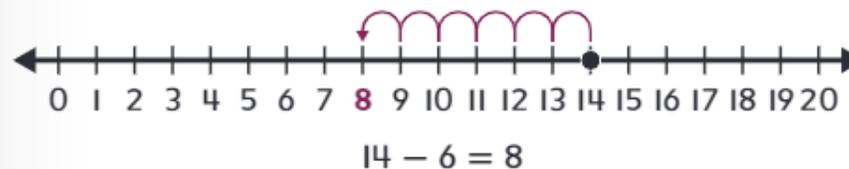
How many cards did Liz lose?

### Math is... Structure

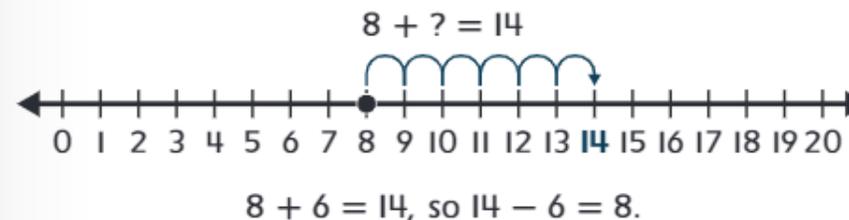
How can you check to make sure your solution is correct?

You can solve  $14 - ? = 8$  in different ways.

► **One Way** is to count back.



► **Another Way** is to think addition.



You can use strategies you know to solve equations.

### Work Together

Solve the equation in more than one way. Show your thinking.

$$9 = 17 - ?$$

## On My Own

Name \_\_\_\_\_

How can you complete the equation?  
Tell or show how you solved.

1.  $12 - \underline{\quad} = 4$

2.  $16 - \underline{\quad} = 7$

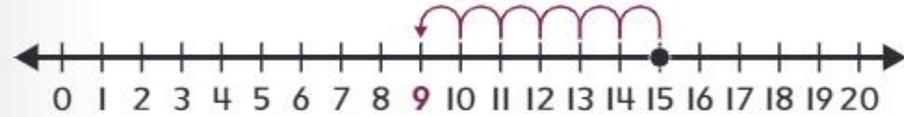
3.  $6 = 15 - \underline{\quad}$

4.  $\underline{\quad} = 11 - 3$

5.  $11 - \underline{\quad} = 7$

6.  $\underline{\quad} = 20 - 9$

7. **Error Analysis** Tony uses a number line to solve  $15 - ? = 11$ . He says the unknown number is 6. Do you agree? Explain.



8. **Extend Your Thinking** Show two ways to solve  $12 - ? = 5$ . Explain your thinking.

## Reflect

How do you choose how to solve subtraction equations?

**Math is... Mindset**

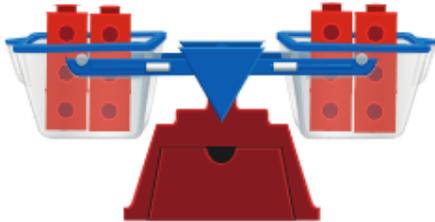
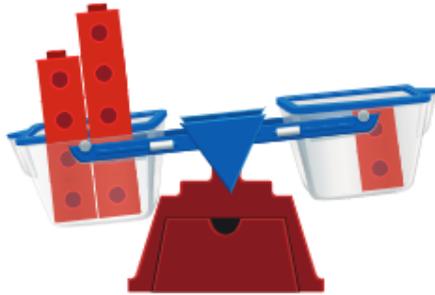
How have you shown respect for your classmates?

## True Subtraction Equations



## Be Curious

Is it always true?



## Math is... Mindset

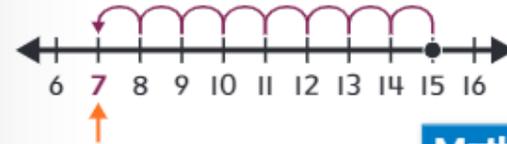
What do you do to get yourself excited to learn?

## Learn

Is this equation true or false?  $15 - 8 \stackrel{?}{=} 11 - 4$ 

You can make two equations.

$15 - 8 = ?$

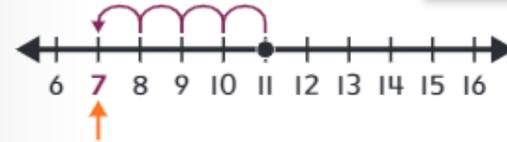


$15 - 8 = 7$

## Math is... Choosing Tools

What is another tool you can use?

$11 - 4 = ?$



$11 - 4 = 7$

The two equations have the same difference.

$15 - 8 = 11 - 4$

The equation is true.

## Work Together

Is this equation true or false? Explain.

$9 - 4 \stackrel{?}{=} 11 - 6$

## On My Own

Name \_\_\_\_\_

Is the equation true or false? Circle True or False.

1.  $13 - 4 = 11$

True

False

2.  $15 - 8 = 7$

True

False

3.  $8 - 6 = 7 - 5$

True

False

4.  $16 - 7 = 18 - 9$

True

False

5.  $9 - 4 = 10 - 3$

True

False

6.  $12 - 4 = 15 - 6$

True

False

7. Is the equation  $13 - 7 = 11 - 6$  true?  
Write Yes or No. Explain your thinking.

Complete the equation to make it true.

8. \_\_\_\_\_ =  $18 - 5$

9.  $17 - 6 = 20 -$  \_\_\_\_\_

10. **STEM Connection** Erik has 19 video games. He gives 5 away. Sam has 15 video games. He loses 2. Do Erik and Sam have the same number of video games left? Explain.



11. **Extend Your Thinking** Complete the equation to make it true.

\_\_\_\_\_ - 4 =  $17 -$  \_\_\_\_\_

### Reflect

What does the equal sign mean?

Math is... Mindset

How did you get excited to learn?

# Unit Review

Name \_\_\_\_\_

## Vocabulary Review

Circle the example of the term.

1. subtract

$5 + 1 = 6$

$15 - 8 = 7$

2. difference

$12 - 7 = 5$

3. fact family

$2 + 8 = 10$

$1 + 8 = 9$

$8 + 2 = 10$

$9 + 2 = 11$

$10 - 2 = 8$

$9 - 3 = 6$

$10 - 8 = 2$

$8 + 1 = 9$

4. unknown

$? - 4 = 2$

5. equal sign

$- + =$

## Review

6. Count back to subtract. Write the difference.

$18 - 4 = \underline{\quad}$



7. Janet has 12 blueberries. She eats 4 blueberries. How many blueberries does Janet have left?

Use the ten-frames to subtract.



       blueberries

8. What double can help you subtract  $14 - 6$ ?

A.  $5 + 9 = 14$

B.  $14 = 13 + 1$

C.  $14 = 4 + 10$

D.  $14 = 7 + 7$



## Fluency Practice

Name \_\_\_\_\_

### Fluency Strategy

You can count up to help you subtract.

$$7 - 5 = ?$$



So,  $7 - 5 = 2$ .

1. How can you draw counters and a jump or jumps to show  $8 - 7$ ? Draw and then write the number.

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

### Fluency Flash

How can you count up to subtract? Write the number.

2.



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

3.



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

### Fluency Check

What is the sum or difference? Write the number.

4.  $9 - 7 = \underline{\quad}$

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

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

10.  $6 - 5 = \underline{\quad}$

6.  $4 - 1 = \underline{\quad}$

11.  $7 + 1 = \underline{\quad}$

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

12.  $6 - 4 = \underline{\quad}$

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

13.  $9 - 2 = \underline{\quad}$

### Fluency Talk

How can you use counters and jumps to subtract? Show an example and explain your work.

How is *counting up* to subtract the same as *counting back* to subtract? How is it different?

Name \_\_\_\_\_

## Shapes and Solids

### Focus Question

What are shapes and solids?

**Hi, I'm Riley.**

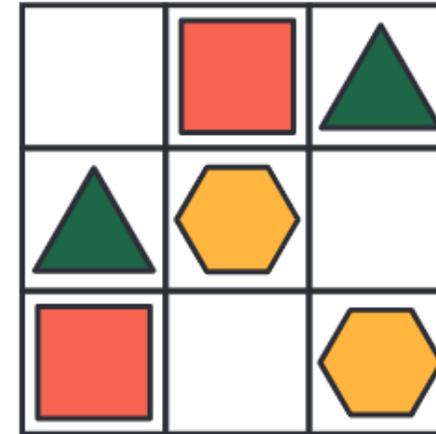
I love cars! I want to be an automotive engineer. A car has lots of parts. The parts can be different shapes. What shapes can you see?



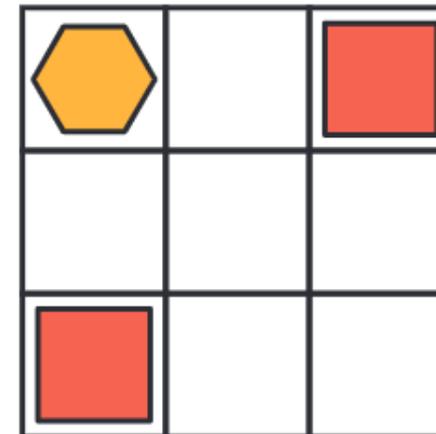
## Shape Sudoku

Use pattern blocks to complete the puzzles.

Puzzle 1



Puzzle 2

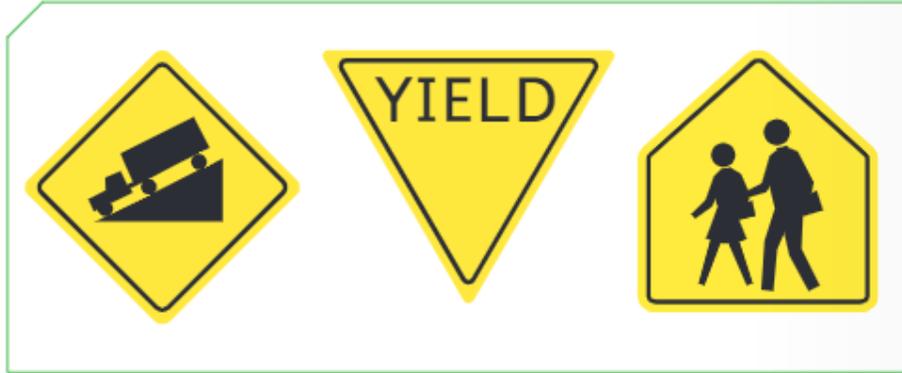


# Understand Defining Attributes of Shapes



## Be Curious

How are they the same?  
How are they different?



### Math is... Mindset

How can you act with your classmates to build a safe classroom culture?

## Learn

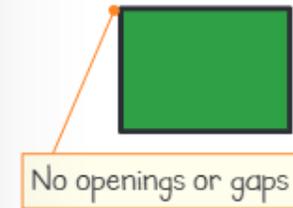
How can you describe these shapes?



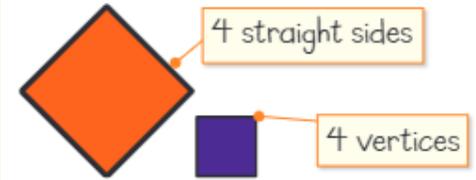
Some are big and some are small.  
They are different colors.



They are all **closed** figures.



They all have 4 straight **sides**.  
They all have 4 **vertices**.



Vertices and straight sides are **defining attributes** of some **2-dimensional shapes**.

### Math is... Patterns

What patterns do you see?

## Work Together

What shape is this? Explain how you know.



## On My Own

Name \_\_\_\_\_

Which shapes match the description?  
Circle all the correct answers.

1. closed shape



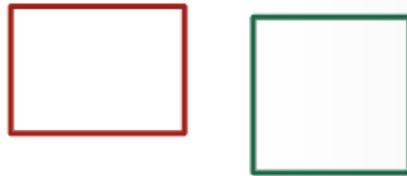
2. shape with 4 vertices



3. rectangle



4. square



5. Which statement is true for a square? Choose all the correct answers.

- A. It has 4 vertices.
- B. It has more sides than vertices.
- C. All its sides are the same length.

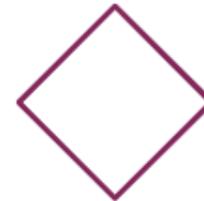
6. Which statement is always true for a rectangle?  
Choose all the correct answers.

- A. It is a closed 2-dimensional shape.
- B. It has 4 vertices.
- C. All of its sides are the same length.

7. **STEM Connection** Erik is playing a video game about shapes. He has to find all the rectangles. Circle the rectangles.



8. **Extend Your Thinking** Carol says this shape is not a rectangle because the sides are all the same length. Do you agree with Carol?



### Reflect

What attributes are always the same for squares and rectangles?

#### Math is... Mindset

How have you and your classmates built a safe classroom culture?

# Understand Non-Defining Attributes



## Be Curious

Which doesn't belong?

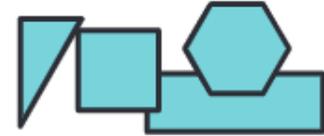


**Math is... Mindset**

What do you do well in math? In reading?

## Learn

Angie says these shapes are all the same.



Do you agree?

**Math is... Patterns**

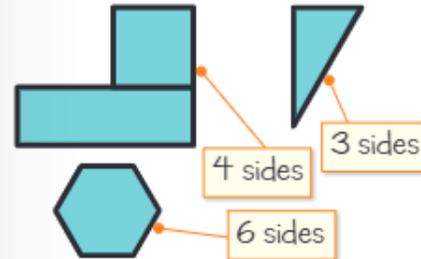
How are the shapes alike and different?

All the shapes are blue.

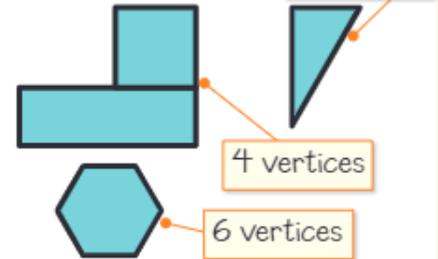
All the shapes are about the same size.



The number of sides is not the same.



The number of vertices is not the same.



Color and size are not defining attributes of shapes.

## Work Together

Draw a square that is a different size and color and turned in a different direction. How do you know your shape is a square?



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## On My Own

Name \_\_\_\_\_

Use the shape to answer the question.



1. Which are *not* defining attributes of this shape?

Choose all the correct answers.

- A. 4 straight sides
- B. 4 vertices
- C. green
- D. large

What are the defining attributes of the shape?

Draw to show the shape.

2. triangle

3. circle

4. hexagon

5. rectangle

6. **Error Analysis** Mansur says these figures are *not* the same shape. Do you agree? Tell why or why not.



7. **Extend Your Thinking** Draw two shapes that have one attribute that is different. What is the different attribute?

### Reflect

Explain why changing the size, color, or direction of a shape does *not* change its name.

#### Math is... Mindset

How did you use your strengths in reading in math today?

# 2-Dimensional Shape Sort

Name \_\_\_\_\_

Cut out the cards on pages 213, 215, and 217.



Triangle or  
Rectangle

Other

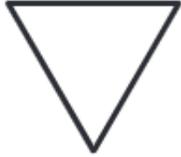




e.



f.



g.



h.



i.



j.



k.



l.





m.



n.



o.



p.



q.



### Reflect On Your Learning



# Compose Shapes



## Be Curious

What do you notice?  
What do you wonder?



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### Math is... Mindset

What helps you control your actions in class?

## Learn

How can you use these shapes to make other shapes?



You can use 2 squares to make a rectangle.



You can use 2 triangles to make a rectangle.



You can use these shapes to make a hexagon.



You can make other shapes.



You can use 2-dimensional shapes to make other 2-dimensional shapes.

### Math is... Precision

How can you name the new shapes you make?

## Work Together

How can you make a flower using these shapes?  
Draw your new shape.



## On My Own

Name \_\_\_\_\_

How can you make the shape using other shapes?  
Draw lines to show how.



How can you use the shapes to make a new shape?  
Draw to show how.



5. Which shape can you make by putting these 2 shapes together?



- A. square
- B. triangle
- C. circle
- D. hexagon

6. **Extend Your Thinking** What are two ways you can make this shape using other shapes?  
Draw your shapes.



### Reflect

How can you put shapes together to make new shapes?

#### Math is... Mindset

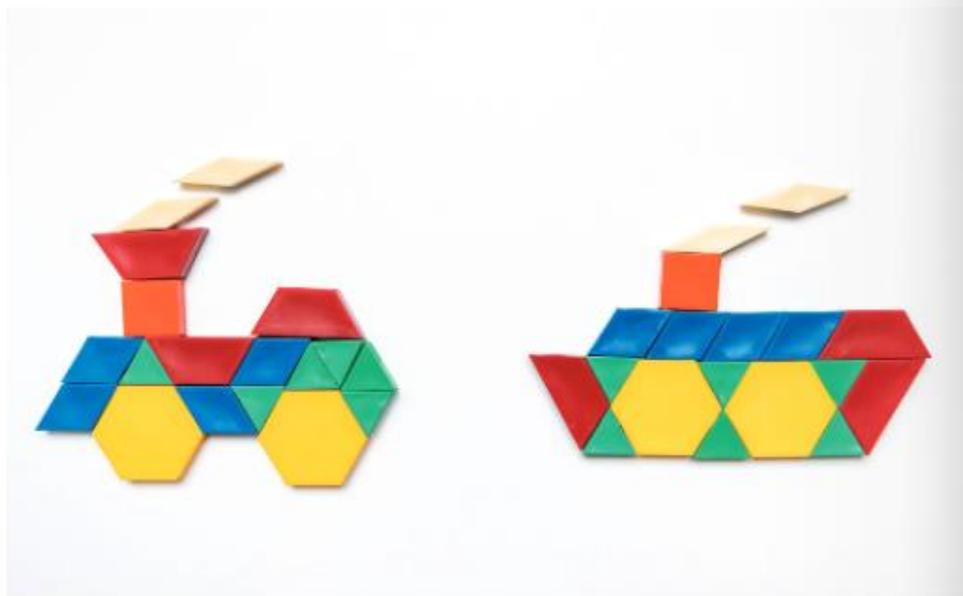
What worked well to control your actions in class?

# Build New Shapes



## Be Curious

How are they the same?  
How are they different?

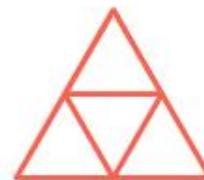


### Math is... Mindset

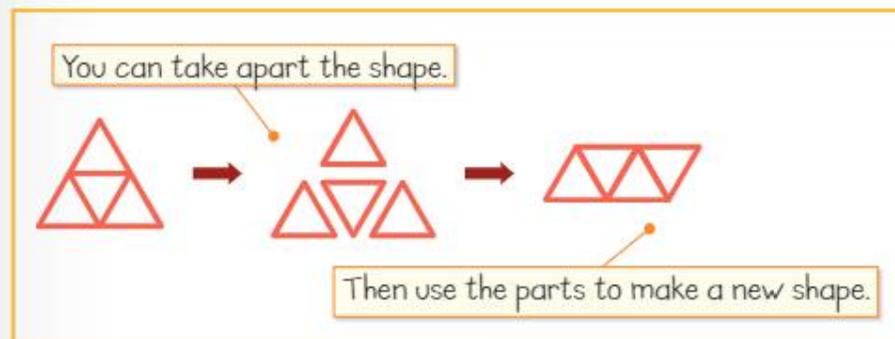
How confident do you feel about math?

## Learn

How can you use these shapes to make a new shape?



You can use the parts of a shape to make a new shape.



The new shape looks different, but it has the same parts.

### Math is... In My World

When might you want to use the parts of a shape to make a new shape?

### Work Together

Make a new shape using some of these shapes. How can you use the parts of your shape to make a different shape?  
Draw your two shapes.



# On My Own

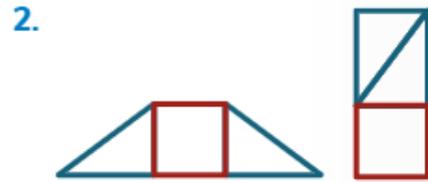
Name \_\_\_\_\_

Can you make the pair of shapes from the same parts? Circle Yes or No.



Yes

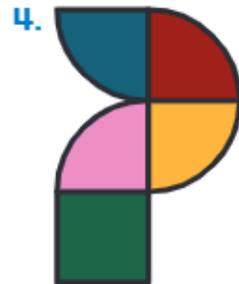
No



Yes

No

How can you make a different shape using the same parts? Draw to show how.



5. How can you use the parts of this shape to make a hexagon? Draw to show your thinking.



6. **Extend Your Thinking** How can you take apart the house and use the parts to make the tree?



house



tree

## Reflect

How can you make new shapes from shapes you already have?

### Math is... Mindset

Why were you confident about math today?

# Understand Attributes of Solids



## Be Curious

What do you notice?  
What do you wonder?



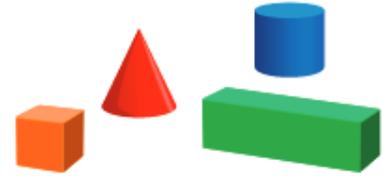
### Math is... Mindset

How can you show that you value the ideas of others?

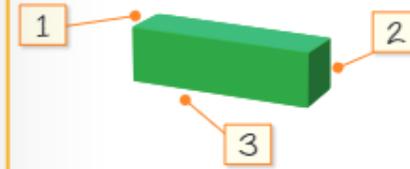
## Learn

How can you describe these shapes?

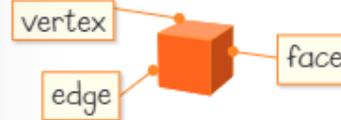
They are 3-dimensional shapes.



They have 3 dimensions.



Some have faces and edges. Some have vertices.



Some have bases.



A cone has an apex.



### Math is... Patterns

What patterns do you see?

You can describe

**3-dimensional shapes** by the defining attributes they always have.

## Work Together

Are these all 3-dimensional shapes? Tell how you know.

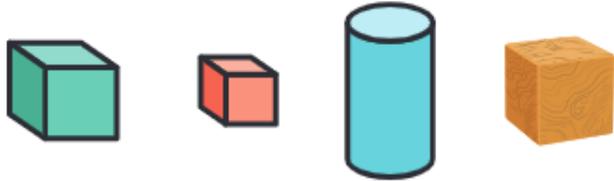


## On My Own

Name \_\_\_\_\_

Circle all the correct answers for the question.

1. Which are cubes?



2. Which are cylinders?



3. Which are cones?



4. Which are rectangular prisms?



5. **STEM Connection** Riley makes a car using blocks. Are blocks 3-dimensional shapes? Tell how you know.



6. Which 3-dimensional shape has faces?

- A. cube
- B. cone
- C. cylinder
- D. sphere

7. **Extend Your Thinking** Violet says a cone is the same as a cylinder. Do you agree? Explain.

### Reflect

What defining attributes do 3-dimensional shapes have?

#### Math is... Mindset

How have you shown that you value the ideas of others?

# Build New Solids



## Be Curious

**What do you notice?  
What do you wonder?**



### Math is... Mindset

What are some ways to build a positive relationship with classmates?

## Learn

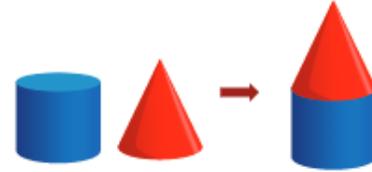
How can you use 3-dimensional shapes to make other 3-dimensional shapes?



You can combine cubes to make a rectangular prism.



You can make objects with 3-dimensional shapes.



You can combine 3-dimensional shapes to make new 3-dimensional shapes.

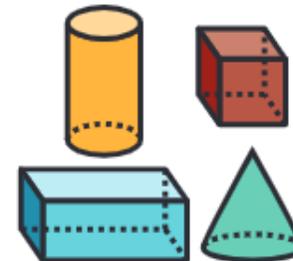
### Math is... Thinking

What other new shapes can you make?

## Work Together

Make a new shape using some of these shapes. How can you use the parts of your shape to make a different shape?

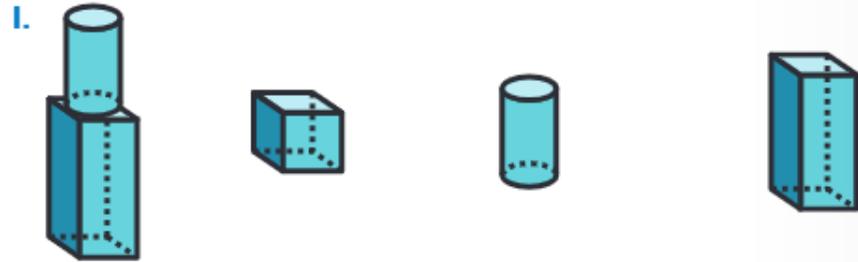
Draw or describe your two shapes.



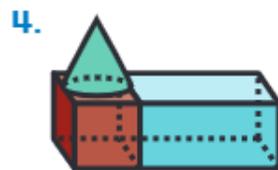
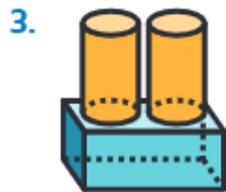
## On My Own

Name \_\_\_\_\_

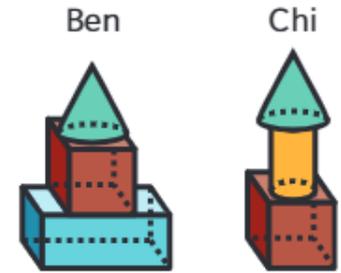
Circle the shapes that make up the object.



Use the parts of the object to make a new object.  
Draw or describe your object.



5. **Error Analysis** Chi wants to make a new object using Ben's shapes. Does Chi's object use the same shapes as Ben's? Explain.



6. **Extend Your Thinking** Brett has 3 cubes. He says there is only one way to make a new shape with them. Do you agree? Explain.

### Reflect

How is making new 3-dimensional shapes like making new 2-dimensional shapes?

#### Math is... Mindset

How did you build a positive relationship with classmates today?

# Unit Review

Name \_\_\_\_\_

## Vocabulary Review

Use the vocabulary to complete each sentence.

2-dimensional shape	attributes
closed	defining attributes
edges	rectangular prism
sides	vertices

- All triangles have 3 \_\_\_\_\_ and 3 \_\_\_\_\_.
- A 3-dimensional shape has faces, vertices, and \_\_\_\_\_.
- A \_\_\_\_\_ is flat.
- A shape with no openings or gaps is \_\_\_\_\_.
- A \_\_\_\_\_ has 6 faces. 
- Color, size, vertices, and sides are some \_\_\_\_\_ of shapes.
- Only the \_\_\_\_\_ of a shape help us name it.

## Review

- Which are closed shapes? Circle all the correct answers.



- How many vertices does the shape have?



- A. 2      B. 3      C. 4      D. 6

- Use the shapes shown.

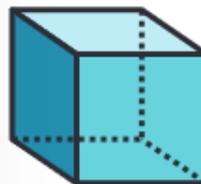


What shapes can you use to make this shape?



You can use Shape \_\_\_\_ and Shape \_\_\_\_.

- How many edges does the shape have?



- A. 4      B. 6      C. 12      D. 18

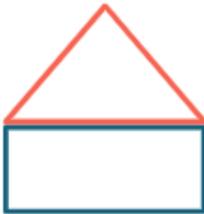
12. Which shapes have 0 vertices? Choose all the correct answers.

- A. rectangular prism
- B. cube
- C. cylinder
- D. sphere

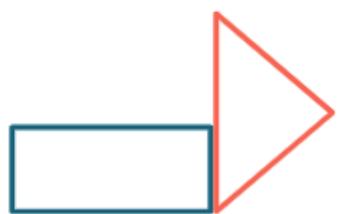
13. Which other shapes can you make from this one? Choose all the correct answers.



14. Can you use the parts of Shape 1 to make Shape 2? Circle Yes or No.



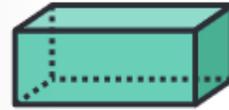
Yes



No

## Performance Task

Automotive engineers use these shapes in car designs.



**Part A:** What are the names of the shapes in the group?

What is one way they are alike?

What is one way they are different?

**Part B:** Which shapes are the faces of those shapes? Circle all the correct answers.



### Reflect

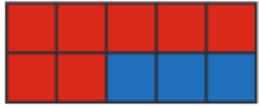
How can you identify 2-dimensional and 3-dimensional shapes?

# Fluency Practice

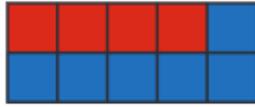
Name \_\_\_\_\_

## Fluency Strategy

You can use a ten-frame to help add to 10.

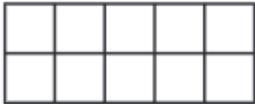


$$7 + 3 = 10$$



$$4 + 6 = 10$$

1. How can you color the ten-frame to add  $5 + 5$ ?  
Show your work.



What is the sum? Write the number.

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

## Fluency Flash

How can you use the ten-frame to add?

Write the sum.



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



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

## Fluency Check

What is the sum or difference? Write the number.

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

5.  $8 - 6 = \underline{\quad}$

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

7.  $5 - 4 = \underline{\quad}$

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

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

10.  $9 - 8 = \underline{\quad}$

11.  $2 + 8 = \underline{\quad}$

12.  $6 - 1 = \underline{\quad}$

13.  $7 - 2 = \underline{\quad}$

## Fluency Talk

How can you show that  $5 + 4$  does not equal 10?  
Explain your work.

How can you count up to subtract  $9 - 7$ ? Show and explain your work.

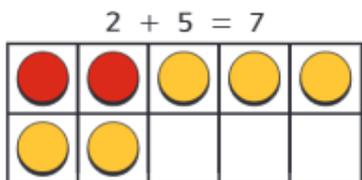
# Glossary/Glosario

English

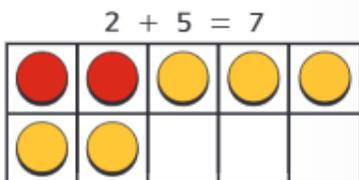
Spanish/Español

**Aa**

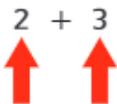
**add (adding, addition)** To join together sets to find the total or sum.



**sumar (adición)** Unir conjuntos para hallar el total o la suma.

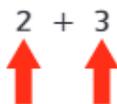


**addend** Any numbers or quantities being added together.



2 is an addend and 3 is an addend

**sumando** Números o cantidades que se suman.



2 es un sumando y 3 es un sumando

**analog clock** A clock that has an hour hand and a minute hand.



**reloj analógico** Reloj que tiene manecilla horaria y minuterero.



English

Spanish/Español

**Cc**

**circle** A closed, round figure.



**círculo** Figura redonda y cerrada.



**closed shape** A shape that begins and ends at the same point.



**figura cerrada** Figura que comienza y termina en el mismo punto.



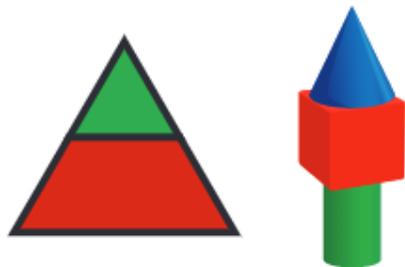
**column** A column goes up and down on a number chart.

**columna** Una columna sube y baja en una tabla numérica.

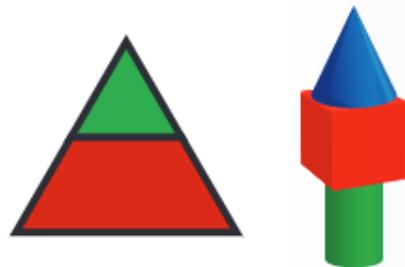
**compare** To look at objects, shapes, or numbers and see how they are alike or different.

**comparar** Observar objetos, formas o números para saber en qué se parecen y en qué se diferencian.

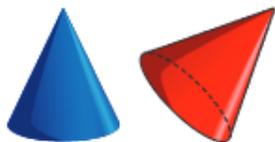
**composite shape** A figure made up of two or more shapes.



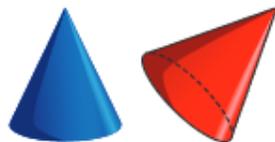
**figura compuesta** Figura formada por dos o más figuras.



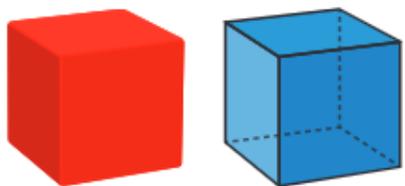
**cone** A 3-dimensional shape with 1 round base and 1 apex.



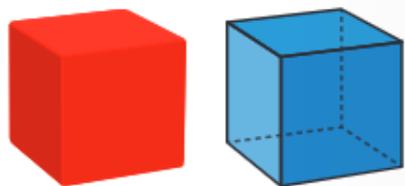
**cono** Figura tridimensional con una base redonda y un punto de unión.



**cube** A 3-dimensional shape with 6 square faces, 8 vertices, and 12 edges.



**cubo** Figura tridimensional con 6 caras cuadradas, 8 vértices y 12 bordes.



**cylinder** A 3-dimensional shape with 2 round faces and a curved surface.



**cilindro** Figura tridimensional con 2 caras redondas y una cara curva.



### Dd

**data** Numbers or symbols collected to show information.

Name	Number of Pets
Mary	3
James	1
Alonzo	4

**datos** Números o símbolos que se reúnen para mostrar información.

Nombre	Número de mascotas
Mary	3
James	1
Alonzo	4

**difference** Subtracting one number from another number gives the difference.

$$3 - 1 = 2$$



The difference is 2.

**diferencia** Restando un número de otro número da la diferencia.

$$3 - 1 = 2$$

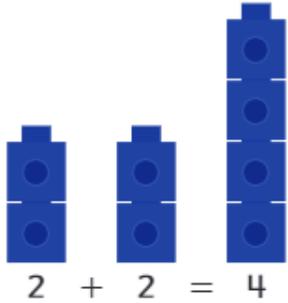


La diferencia es 2.

**digit** A symbol used to write numbers. The ten digits are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

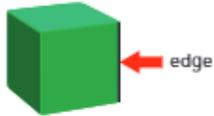
**dígito** Símbolo usado para escribir números. Los diez dígitos son: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

**doubles** Two addends that are the same number.



## Ee

**edge** The line where two sides or faces meet.

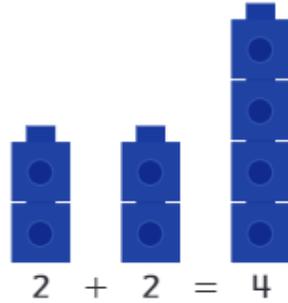


**equal shares** Each share is the same size.

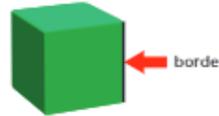
Example: This muffin is cut into 2 equal shares.



**dobles** Dos sumandos que son el mismo número.



**borde** Línea donde dos lados o caras se unen.



**partes iguales** Cada una de las partes tiene el mismo tamaño.

Ejemplo: Este pastelillo está cortado en 2 partes iguales.

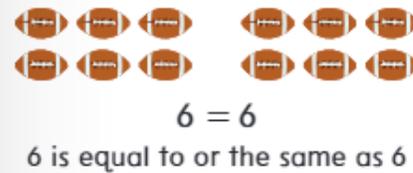


**equal sign (=)** Having the same value as or is the same as.

$$2 + 4 = 6$$

↑  
equal sign

**equal to (=)**



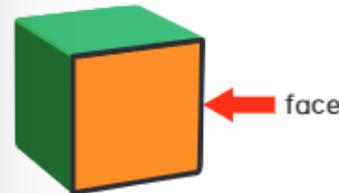
**equation** A number sentence that includes an equal sign.

$$5 + 7 = 12$$

## Ff

**face** The flat part of a 3-dimensional figure.

Example: A square is a face of a cube.

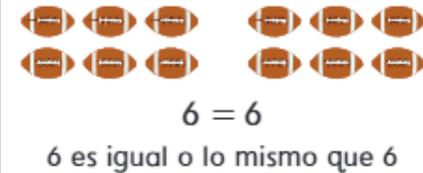


**signo igual (=)** Que tienen el mismo valor o son lo mismo.

$$2 + 4 = 6$$

↑  
signo igual

**igual a (=)**

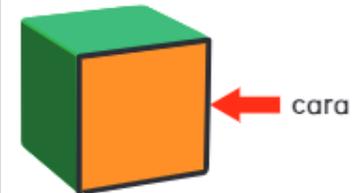


**ecuación** Una oración numérica que incluye el signo igual.

$$5 + 7 = 12$$

**cara** La parte plana de una figura tridimensional.

Ejemplo: Un cuadrado es la cara de un cubo.



**fact family** Addition and subtraction sentences that use the same numbers. Sometimes called *related facts*.

$$6 + 7 = 13 \quad 13 - 7 = 6$$

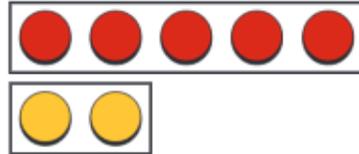
$$7 + 6 = 13 \quad 13 - 6 = 7$$

**familia de operaciones** Enunciados de suma y resta que tienen los mismos números. Algunas veces se llaman *operaciones relacionadas*.

$$6 + 7 = 13 \quad 13 - 7 = 6$$

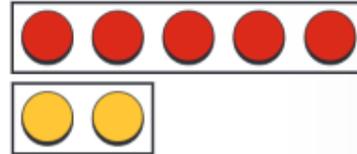
$$7 + 6 = 13 \quad 13 - 6 = 7$$

**fewer** Not as many or a smaller amount.



There are fewer yellow counters than red ones.

**menos** El número o grupo con menos.



Hay menos fichas amarillas que fichas rojas.

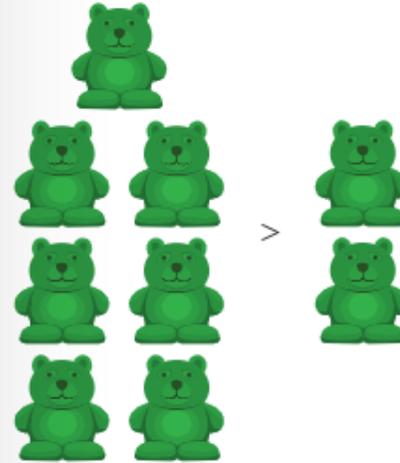
**fourths** Four equal parts of a whole. Each part is a fourth, or a quarter, of the whole.

**cuartos** Cuarto partes iguales de un todo. Cada parte es un cuarto, o la cuarta parte del todo.

## Gg

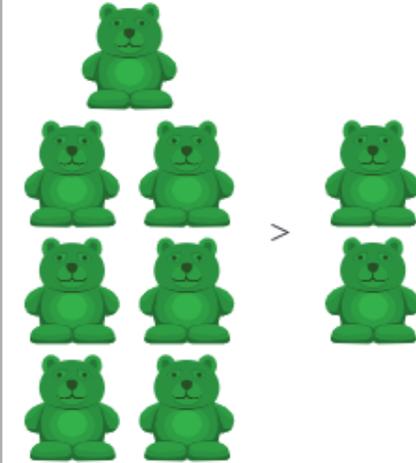
**greater than (>)** When an amount is larger than another amount.

Example: 7 is greater than 2 or  $7 > 2$ .



**mayor que (>)** Cuando una cantidad es más grande que otro.

Ejemplo: 7 es mayor que 2 o  $7 > 2$ .



## Hh

**half hour (or half past)** One half of an hour is 30 minutes. Sometimes called *half past* or *half past the hour*.



**media hora (o y media)** Media hora son 30 minutos. A veces se dice hora y media.



**halves** Two equal parts of a whole. Each part is a half of the whole.

**mitades** Dos partes iguales de un todo. Cada parte es la mitad de un todo.

**hexagon** A 2-dimensional shape that has 6 sides.

**hexágono** Una figura bidimensional con 6 lados.



**hour** A unit of time.  
1 hour = 60 minutes

**hora** Unidad de tiempo.  
1 hora = 60 minutos



**hour hand** The hand on a clock that tells the hour. It is the shorter hand.

**manecilla horaria** Manecilla del reloj que indica la hora. Es la manecilla más corta.



## L1

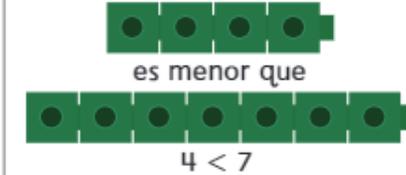
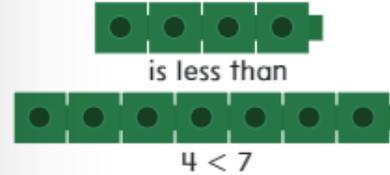
**length** How long or how far away something is.

**longitud** La mayor de las dos dimensiones principales que tienen las cosas o figuras planas.



**less than (<)** 4 is less than 7.

**menor que (<)** 4 es menor que 7.



## English

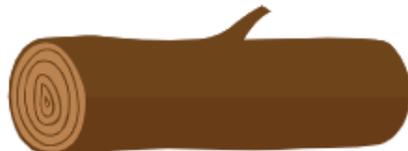
**long (longer, longest)** A way to compare the lengths of objects.



long



longer



longest

Mm

**measure** To find the length, height, or weight using standard or nonstandard units.

## Spanish/Español

**largo (más largo, el más largo)** Forma de comparar la longitud de objetos.



largo



más largo



el más largo

**medir** Hallar la longitud, estatura o peso mediante unidades estándar o no estándar.

## English

**minus (-)** The sign used to show subtraction.

$$5 - 2 = 3$$



minus sign

**minute** A unit used to measure time.  
1 minute = 60 seconds



**minute hand** The longer hand on a clock that tells the minutes.



## Spanish/Español

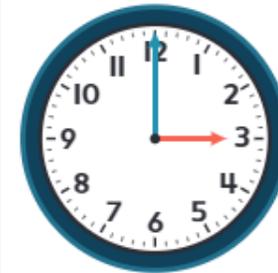
**menos (-)** Signo que indica resta.

$$5 - 2 = 3$$

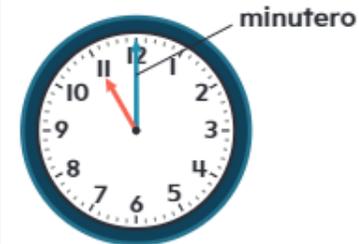


signo menos

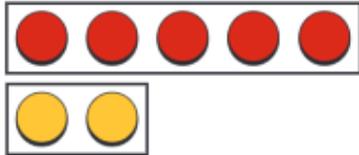
**minuto** Unidad para medir tiempo.  
1 minuto = 60 segundos



**minutero** La manecilla más larga del reloj que indica los minutos.

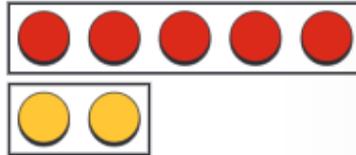


**more** A larger or greater amount.



There are more red counters than yellow ones.

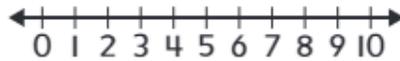
**más** Una cantidad mayor o más grande.



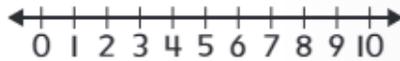
Hay más fichas rojas que amarillas.

### Nn

**number line** A line with number labels.



**recta numérica** Recta con marcas de números.



### Oo

**one-fourth** One of 4 equal shares.



one-fourth shaded

**un cuarto** Una de 4 partes iguales.



un cuarto sombreado

**one-half** One of 2 equal shares.



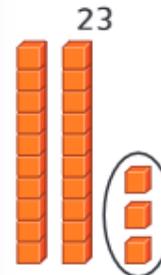
one-half shaded

**mitad** Una de 2 figuras iguales.



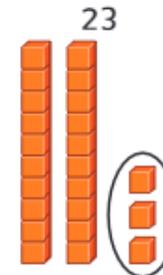
una mitad sombreada

**ones** The numbers in the range of 0–9. It is the place value of a number.



This number has 3 ones.

**unidades** Los números en el rango de 0 a 9. Es el valor posicional de un número.



Este número tiene 3 unos.

**open shape** A figure not connected at one or more points.

**figura abierta** Figura que no está unida en uno o más puntos.

## Pp

**pattern** An order that a set of objects or numbers follows over and over.



pattern unit

**picture graph** A graph that has different pictures to show information collected.



**place value** The value given to a digit by its place in a number.

65  
6 tens  
5 ones

**plus (+)** The sign used to show addition.

$$4 + 5 = 9$$

  
plus sign

**patrón** Orden que sigue continuamente un conjunto de objetos o números.



unidad de patrón

**gráfica con imágenes** Gráfica que tiene diferentes imágenes para ilustrar la información recopilada.



**valor posicional** Valor de un dígito según el lugar en el número.

65  
6 decenas  
5 unidades

**más (+)** Símbolo para mostrar la suma.

$$4 + 5 = 9$$

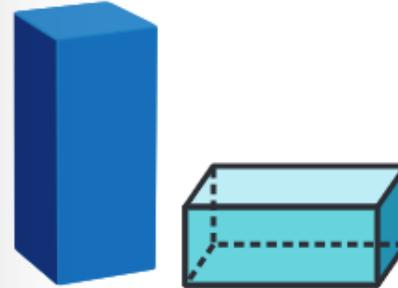
  
signo más

## Rr

**rectangle** A shape with 4 straight sides and 4 vertices.



**rectangular prism** A 3-dimensional shape with 6 faces, 8 vertices, and 12 edges.



**related fact(s)** Basic facts using the same numbers. Sometimes called a *fact family*.

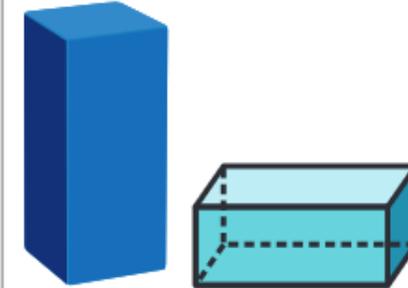
$$\begin{array}{l} 6 + 4 = 10 \quad 10 - 6 = 4 \\ 4 + 6 = 10 \quad 10 - 4 = 6 \end{array}$$

**row** A row goes left to right on a number chart.

**rectángulo** Figura con 4 lados y 4 esquinas.



**prisma rectangular** Figura tridimensional con 6 caras, 8 esquinas y 12 bordes.



**operaciones relacionadas** Operaciones básicas en las cuales se usan los mismos números. También se llaman familias de operaciones.

$$\begin{array}{l} 6 + 4 = 10 \quad 10 - 6 = 4 \\ 4 + 6 = 10 \quad 10 - 4 = 6 \end{array}$$

**fila** Una fila se lee de izquierda a derecha en una tabla numérica.

## Ss

**short (shorter, shortest)** To compare length or height of two (or more) objects.



short



shorter



shortest

**corto (más corto, el más corto)** Comparar la longitud o la altura de dos (o más) objetos.



corto

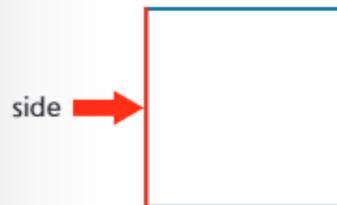


más corto



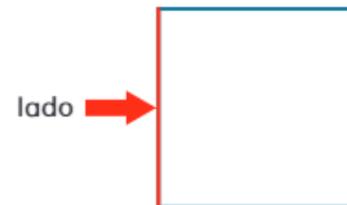
el más corto

**side** One of the lines that make up a shape.



side

**lado** Uno de la líneas que compone una figura.

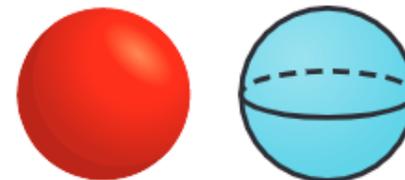


lado

**sphere** A solid shape that has the shape of a round ball.



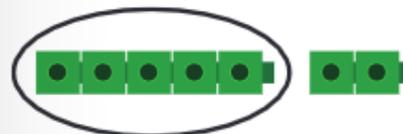
**esfera** Figura sólida con la forma de una pelota redonda.



**square** A rectangle that has 4 equal sides.

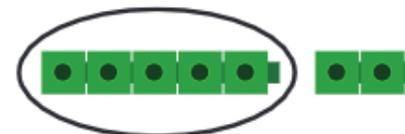
**cuadrado** Rectángulo que tiene 4 lados iguales.

**subtract (subtracting, subtraction)** To take away, take apart, separate, or find the difference between two sets. The opposite of addition.



$$7 - 2 = 5$$

**restar (resta, sustracción)** Eliminar, quitar, separar o hallar la diferencia entre dos conjuntos. Lo opuesto de la suma.



$$7 - 2 = 5$$

## English

**sum** Adding two or more numbers gives the sum.

$$2 + 4 = 6$$

↑  
sum

## Tt

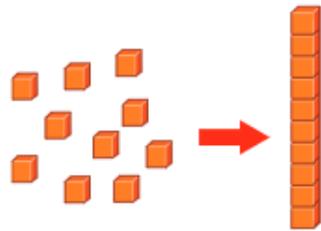
**tally mark(s)** A mark used to record data collected in a survey.



**teen number** A number that is 1 group of ten and some ones.

Example: 12

**ten** One group of 10 ones is 1 ten.



## Spanish/Español

**suma** Sumando dos o más números da la suma.

$$2 + 4 = 6$$

↑  
suma

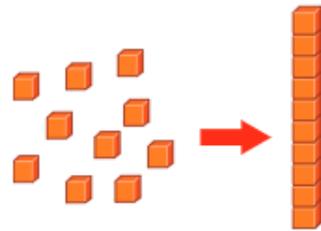
**marca(s)** Símbolo usado para anotar datos de una encuesta.



**números del 11 al 19** Un número formado por una decena y algunas unidades.

Ejemplo: 12

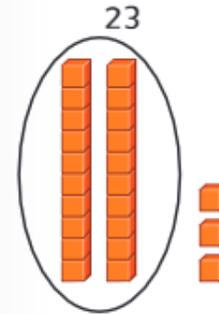
**decena** Un grupo de 10 es una decena.



## English

**tens** A place value of a number.

Example: In the number 23, the 2 is in the tens place.



This number has 2 tens.

**triangle** A shape with 3 sides.



## Uu

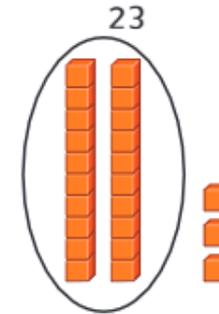
**unit** An object used to measure.



## Spanish/Español

**decenas** El valor posicional de un número.

Ejemplo: En el número 23, el 2 está en el lugar de las decenas.



Este número tiene 2 decenas.

**trapecio** Figura con 3 lados.



**unidad** Objeto que se usa para medir.



English

Spanish/Español

**unknown** A missing number in an equation.

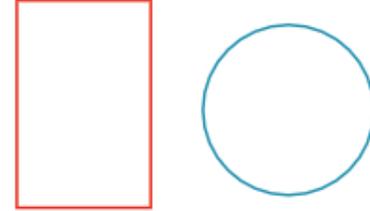
$$9 + ? = 10$$

**incógnita** El número que falta en una ecuación.

$$9 + ? = 10$$

**Ww**

**whole** The entire object.



**el todo** El objeto completo.

