

21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

1. Sonya is making muffins. The recipe uses $\frac{1}{2}$ cup of flour and makes 12 mini muffins. How many cups of flour should Sonya use to make 6 muffins?


A. $\frac{1}{24}$ cup B. $\frac{1}{4}$ cup C. $\frac{1}{6}$ cup D. $\frac{1}{12}$ cup

1 $12 \div 6 = 2$

2 $\frac{1}{2} \div 2 =$

$\frac{1}{2} \times \frac{1}{2} = \frac{1 \times 1}{2 \times 2} = \frac{1}{4}$ cup

Keep Change Flip



56


21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

2. **STEM Connection** Saffron has 4 cups of chocolate chips. She has a muffin recipe that calls for $\frac{1}{8}$ cup of chocolate chips per muffin. How many muffins can Saffron make?

1 $4 \div \frac{1}{8} =$

2 $4 \times \frac{8}{1} = \frac{4 \times 8}{1 \times 1} = \frac{32}{1} = 32$ muffins

Keep Change Flip



57

21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

3. Mr. Kline is making vegetable soup. His recipe makes 12 servings and uses $\frac{1}{3}$ pound of peas. How many pounds of peas does he need to make 6 servings?

A. $\frac{1}{36}$ pound B. $\frac{1}{6}$ pound C. $\frac{1}{4}$ pound D. 4 pounds

1 $12 \div 6 = 2$

2 $\frac{1}{3} \div 2 =$

$\frac{1}{3} \times \frac{1}{2} = \frac{1 \times 1}{3 \times 2} = \frac{1}{6}$ pound

Keep Change Flip



58


21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

4. Ms. Jorge is dividing 4 pounds of gardening soil equally for 5 potted plants. How many pounds of soil will be in each pot?

1 $4 \div 5 =$

2 $\frac{4}{1} \times \frac{1}{5} = \frac{4 \times 1}{1 \times 5} = \frac{4}{5}$ pound

Keep Change Flip



59

21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

5. A zoo has 5 pounds of fruit and 3 pounds of lettuce to divide equally among 3 gorillas. How many total pounds of fruit and lettuce will each gorilla get?

1. Fruit : $5 \div 3 = \frac{5 \times 1}{1 \times 3} = \frac{5}{3}$ pound fruit

2. Lettuce : $3 \div 3 = \frac{3 \times 1}{1 \times 3} = \frac{3}{3} = 1$ pound lettuce]

21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

6. A relay race is $\frac{1}{2}$ mile long. How far does each person run if there are 3 members on the team?

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6} \text{ mile}$$

7. Shaun is making 3 bags of trail mix. He has $\frac{1}{5}$ pound of dried cranberries to divide equally among the bags. How many pounds of dried cranberries will be in each bag?

$$\frac{1}{5} \div 3 = \frac{1}{5} \times \frac{1}{3} = \frac{1 \times 1}{5 \times 3} = \frac{1}{15} \text{ pound}$$

- A. $\frac{1}{15}$ pound B. $\frac{3}{5}$ pound C. $\frac{1}{3}$ pound D. 15 pounds

8. Lucy brings 4 cakes to the bake sale. Each piece of cake is $\frac{1}{6}$ of the whole. How many pieces of cake does she have? Write and solve the equation.

$$4 \div \frac{1}{6} \rightarrow 4 \times \frac{6}{1} = \frac{4 \times 6}{1} = \frac{24}{1} = 24 \text{ pieces}$$

21	Solve word problems involving division of fractions using strategies such as using fraction models	(1-6)	157
		(7-10)	158

9. Mike made 60 cookies. He divided the cookies equally among his 8 friends and kept the rest for himself. How many cookies did Mike give his friends, and how many did he keep?

$$\frac{60}{8} = 7 \text{ R } 4, \text{ he gave his friends 7 and he keep 4 for himself.}$$

$$\begin{array}{r} 7 \\ 8 \overline{) 60} \\ \underline{56} \\ 4 \text{ R} \end{array}$$

10. Ingrid buys this piece of cheese. She uses equal amounts of it to make 3 sandwiches. How much cheese is on each sandwich?

$$\frac{1}{4} \div 3 = \frac{1}{4} \times \frac{1}{3} = \frac{1 \times 1}{4 \times 3} = \frac{1}{12} \text{ lb}$$



22	Plot ordered pairs on a coordinate plane	(1-6)	203
		(9-12)	204

Plot and label the point for each place shown in the table.

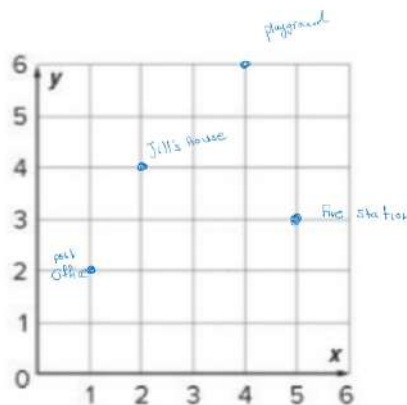
Place	Ordered Pair
Playground	(4, 6)
Post Office	(1, 2)
Fire Station	(5, 3)
Jill's House	(2, 4)

1. Playground

2. Post Office

3. Fire Station

4. Jill's House



22	Plot ordered pairs on a coordinate plane	(1-8)	203
		(9-12)	204

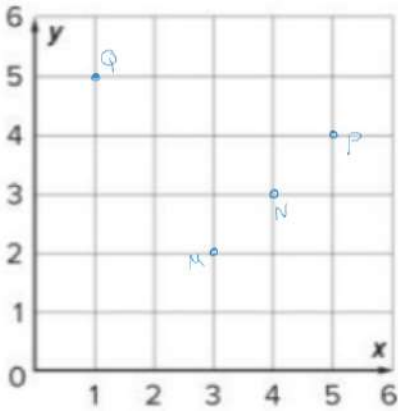
Plot and label the point for each ordered pair.

5. $M(3, 2)$

6. $N(4, 3)$

7. $P(5, 4)$

8. $Q(1, 5)$



22	Plot ordered pairs on a coordinate plane	(1-8)	203
		(9-12)	204

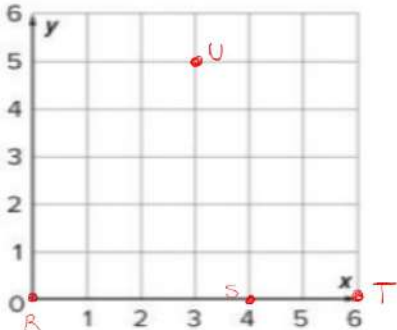
Plot and label the point for each ordered pair.

9. $R(0, 0)$

10. $S(4, 0)$

11. $T(0, 6)$

12. $U(3, 5)$



22	Plot ordered pairs on a coordinate plane	(1-8)	203
		(9-12)	204

Plot and label the point for each place shown in the table.


Place	Ordered Pair
Playground	(4, 6)
Post Office	(1, 2)
Fire Station	(5, 3)
Jill's House	(2, 4)

1. Playground

2. Post Office

3. Fire Station

4. Jill's House



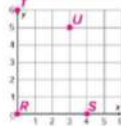
Plot and label the point for each ordered pair.

9. $R(0, 0)$

10. $S(4, 0)$

11. $T(0, 6)$

12. $U(3, 5)$



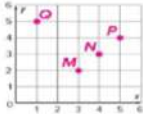
Plot and label the point for each ordered pair.

5. $A(3, 2)$

6. $N(4, 3)$

7. $P(5, 4)$

8. $Q(1, 5)$



23	Use the order of operations to evaluate numerical expressions	(5-10)	241
		(24,26)	259

()

X or ÷

+ or -

Parentheses
Multiply
Divide
Add
Subtract

P
M
D
A
S

What is the solution? Show your work.

5. $3 + (7 \times 2) =$

$3 + 14$

$= 17$

6. $(3 + 7) \times 2 =$

$10 \times 2 = 20$

23	Use the order of operations to evaluate numerical expressions	(5-10)	241
		(24,26)	259

()

X or ÷

+ or -

Parentheses Multiply Divide Add Subtract

P M D A S

7. $(56 \div 8) - 3 + 2 \times 5 =$ _____

\downarrow
 $7 - 3 + (2 \times 5)$
 \downarrow
 $(7 - 3) + 10$
 \downarrow
 $4 + 10$
 $= 14$

8. $56 \div (8 - 3 + 2) \times 5 =$ _____

\downarrow
 $56 \div 7 \times 5$
 \downarrow
 8×5
 $= 40$

23	Use the order of operations to evaluate numerical expressions	(5-10)	241
		(24,26)	259

8) $\begin{array}{r} 269 \\ -24 \\ \hline 29 \\ -24 \\ \hline 5 \end{array}$

()

X or ÷

+ or -

④ $\begin{array}{r} 6.75 \\ +3.25 \\ \hline 10.00 \end{array}$

Parentheses Multiply Divide Add Subtract

P M D A S

9. $2\frac{3}{8} + (1\frac{1}{4} \times 6\frac{3}{4}) - \frac{1}{2} =$ $35\frac{5}{8}$

$2\frac{3}{8} + (\frac{5}{4} \times \frac{27}{4}) - \frac{1}{2}$
 $2\frac{3}{8} + \frac{135}{16} - \frac{8}{16}$
 $2\frac{6}{16} + \frac{135}{16} - \frac{8}{16} = 2\frac{141}{16} - \frac{8}{16} = 2\frac{133}{16} = 2 + 8\frac{5}{16} = 10\frac{5}{16}$

10. $5.8 \times (6.75 + 3.25) \div 2 =$ 29

$5.8 \times 10 \div 2$
 $58 \div 2 = 29$

23	Use the order of operations to evaluate numerical expressions	(5-10)	241
		(24,26)	259

24. Fill in the blank. (Lesson 14-3)

()

X or ÷

+ or -

Parentheses Multiply Divide Add Subtract

P M D A S

What is the value of the expression?

$6 \times (8 - 3) + 14$
 \downarrow
 $6 \times 5 + 14$
 \downarrow
 $30 + 14$
 $= 44$

23	Use the order of operations to evaluate numerical expressions	(5-10)	241
		(24,26)	259

26. Fill in the blank. (Lesson 14-3)

()

X or ÷

+ or -

Parentheses Multiply Divide Add Subtract

P M D A S

What is the value of the expression?

$250 - (12 \times 5) - 10 \times 2$
 \downarrow
 $250 - 60 - 10 \times 2$
 \downarrow
 $250 - 60 - 20$
 \downarrow
 $190 - 20$
 $= 170$

⑧

④

24	A learning outcome from the SoW تأثير من الخطة القصصية	Undisclosed غير معائن	Undisclosed غير معائن
25	A learning outcome from the SoW	Undisclosed غير معائن	Undisclosed غير معائن

Describe a relationship between corresponding terms in Patterns A and B.

1. Pattern A starts at 0 and adds 4 to each term.
 Pattern B starts at 0 and adds 2 to each term.

A 2 times B

2. Pattern A starts at 0 and adds 3 to each term.
 Pattern B starts at 0 and adds 9 to each term.

B 3 times A

3. Pattern A starts at 0 and adds 20 to each term.
 Pattern B starts at 0 and adds 5 to each term.

A 4 times B

Book Page: 251

24	A learning outcome from the SoW تأثير من الخطة القصصية	Undisclosed غير معائن	Undisclosed غير معائن
25	A learning outcome from the SoW	Undisclosed غير معائن	Undisclosed غير معائن

Use the table to answer Exercises 4–6.

4. Fill in the unknown terms in the table.

Pattern A	Pattern B
+ 2	+ 8
0	0
2	8
4	16
6	24
8	32
20	80

5. What is a relationship between the corresponding terms in Patterns A and B?
 Pattern B is 4 times pattern A

6. If a term in Pattern A is 20, what will be its corresponding term in Pattern B?

$$20 \times 4 = 80$$

Book Page: 251

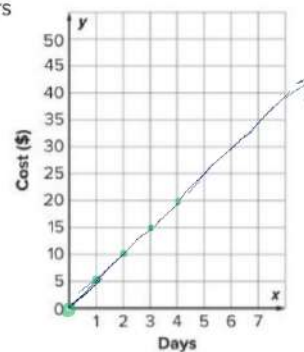
Date: 30 May, 2023

Title : Graph Numerical Patterns

Book Page: 255

1. The Scooters and Stuff Rental charges are shown in the table.
 Write the corresponding terms as ordered pairs and plot them on the coordinate plane.

Scooters and Stuff Rental		
Days	Cost (\$)	Ordered Pair
0	0	(0, 0)
1	5	(1, 5)
2	10	(2, 10)
3	15	(3, 15)
4	20	(4, 20)



Date: 30 May, 2023

Title : Graph Numerical Patterns

Book Page: 255

2. What is the rule for the pattern in the Days column of the table?
 Add 1

3. What is the rule for the pattern in the Cost (\$) column of the table?
 Add 5

4. What is a relationship between the corresponding terms in the table?

The Cost is 5 times the day

5. How much should it cost to rent a scooter for 8 days?

$$8 \times 5 = 40 \$$$

6. Write the ordered pair and plot the point on the coordinate plane for 8 days.

(8, 40)

7. How much should it cost to rent a scooter for $6\frac{1}{2}$ days?

$$6\frac{1}{2} \times 5 = \frac{65}{2} = 32.5$$

Scooters and Stuff Rental		
Days	Cost (\$)	Ordered Pair
0	0	(0, 0)
1	5	(1, 5)
2	10	(2, 10)
3	15	(3, 15)
4	20	(4, 20)

$$8 \times 5 = 40$$

$$6\frac{1}{2} \times 5 = 32.5$$