

Homework

1. Complete the Multiplication Table.

•		2		4	5		7	8	9
1	1	2	3		5	6		8	9
	2	4		8		12	14		18
3			9		15	18		24	
	4	8		16		24	28		36
5	5	10	15		25		35		45
			18	24	30	36		48	
7		14						56	
	8			32	40		56		72
9	9	18	27		45	54		72	

2. Complete the Scrambled Multiplication Table.

•	5		4			3		2	6
4	20			36		12			24
1		8		9	7		1		
8		64	32		56	24		16	
	15				21		3	6	
7	35		28	63		21		14	42
	25		20		35		5	10	
6	30	48		54		18	6		36
9		72	36	81		27	9	18	
	10		8		14	6	2		12

3. Describe your strategy for filling in the top row of the Scrambled Multiplication Table.

Remembering

Multiply or divide.

1. $42 \div 6 = \underline{\hspace{2cm}}$

2. $\underline{\hspace{2cm}} = 56 \div 7$

3. $\underline{\hspace{2cm}} = 8 \times 9$

4. $\underline{\hspace{2cm}} = 7 \times 4$

5. $9 \cdot 4 = \underline{\hspace{2cm}}$

6. $\underline{\hspace{2cm}} = \frac{63}{7}$

7. $6 \cdot 6 = \underline{\hspace{2cm}}$

8. $\underline{\hspace{2cm}} = 6 \cdot 9$

9. $81 \div 9 = \underline{\hspace{2cm}}$

10. $\frac{72}{9} = \underline{\hspace{2cm}}$

11. $\underline{\hspace{2cm}} = 8 \times 4$

12. $\underline{\hspace{2cm}} = 48 \div 8$

13. $\underline{\hspace{2cm}} = 8 \cdot 8$

14. $24 \div 6 = \underline{\hspace{2cm}}$

15. $\underline{\hspace{2cm}} = \frac{36}{6}$

Represent the situation with an equation. Solve.

16. The town planted 3 new trees in the park. Now there are 27 trees. How many trees were there before the new trees were planted?

Equation: _____

Answer: _____

17. In the school parking lot, there are 6 rows of cars with 30 cars in each row. How many cars are there in the school parking lot?

Equation: _____

Answer: _____

18. At the start of the day on Friday, 40 tickets had been sold to the school play. During the day, some more tickets were sold. By the end of the day on Friday, 48 tickets were sold. How many tickets were sold during the day on Friday?

Equation: _____

Answer: _____

19. Arun has 3 birds. He has 6 times as many goldfish as birds. How many goldfish does Arun have?

G

3	3	3	3	3	3
---	---	---	---	---	---

B

3

Equation: _____

Answer: _____

20. **Stretch Your Thinking** Cary bought a large bag of 12 apples and 3 small bags with 6 apples each. How many apples did Cary buy?
Hint: Use parentheses if you need to.

Equation: _____

Answer: _____

Homework

Solve each Factor Puzzle.

1.

12	15
8	

2.

8	
14	21

3.

8	12
	15

4.

15	35
18	

5.

32	40
	45

6.

	24
35	42

7.

40	15
48	

8.

	6
72	16

9.

63	27
35	

10.

28	49
32	

11.

63	72
28	

12.

49	
42	24

13. Describe strategies for solving a Factor Puzzle.

Remembering

Multiply or divide.

1. _____ = 9×7

2. $36 \div 6 =$ _____

3. _____ = $48 \div 8$

4. _____ = $\frac{56}{8}$

5. _____ = 7×7

6. $8 \bullet 7 =$ _____

7. $81 \div 9 =$ _____

8. $4 \bullet 7 =$ _____

9. _____ = $8 \bullet 8$

10. _____ = $\frac{32}{8}$

11. $6 \bullet 8 =$ _____

12. _____ = $\frac{16}{4}$

13. _____ = $54 \div 6$

14. $\frac{72}{9} =$ _____

15. _____ = 6×7

Represent the situation with an equation. Solve.

16. Vincent had 120 baseball cards. Then he bought some more. Now he has 160 cards. How many cards did Vincent buy?

Equation: _____

Answer: _____

17. Frank buys 8 packages of light bulbs. There are 4 light bulbs in each package. How many light bulbs does he buy?

Equation: _____

Answer: _____

18. Mrs. Martin made 12 tuna sandwiches. This was 3 times the number of cheese sandwiches that she made. How many cheese sandwiches did she make?

T

4	4	4
---	---	---

C

4

Equation: _____

Answer: _____

19. Maria has a box of beads. She used 60 beads to make a necklace for her mother. Now there are 420 beads left in the box. How many beads were in the box before Maria made the necklace?

Equation: _____

Answer: _____

20. **Stretch Your Thinking** Jared ran 7 miles on Monday and 3 times as far on Tuesday. How many more miles did Jared run on Tuesday than on Monday? Hint: Use parentheses if you need to.

Equation: _____

Answer: _____

Homework

Complete this story about Noreen's older brother, Tim.

Tim saved \$5 every day. Noreen and Tim both started to save on the same day. Draw pictures of Tim's bank each day if that helps you decide how much he has saved.

Tim began with an empty bear bank.

1. On Day 1 Tim put \$5 into his bear bank.

On Day 1 Tim had _____ in his bank.

2. On Day 2 Tim put \$5 into his bear bank.

On Day 2 Tim had _____ in his bank.

3. On Day 3 Tim put \$5 into his bear bank.

On Day 3 Tim had _____ in his bank.

4. On Day 4 Tim put \$5 into his bear bank.

On Day 4 Tim had _____ in his bank.

5. On Day 5 Tim put \$5 into his bear bank.

On Day 5 Tim had _____ in his bank.

6. On Day 6 Tim put \$5 into his bear bank.

On Day 6 Tim had _____ in his bank.

7. On Day 7 Tim put \$5 into his bear bank.

On Day 7 Tim had _____ in his bank.

8. On Day 8 Tim put \$5 into his bear bank.

On Day 8 Tim had _____ in his bank.

9. Complete the rate table to show Tim's savings.

Days	Dollars
1	
2	
3	
4	
5	
6	
7	
8	

Diagram illustrating the rate table with arrows and plus signs indicating the addition of \$5 each day:

Remembering

Multiply or divide.

- | | | |
|----------------------------|----------------------------|----------------------------|
| 1. $56 \div 7 =$ _____ | 2. _____ $= 72 \div 8$ | 3. _____ $= 9 \cdot 9$ |
| 4. $8 \cdot 4 =$ _____ | 5. _____ $= 7 \cdot 6$ | 6. $56 \div 8 =$ _____ |
| 7. _____ $= 6 \cdot 4$ | 8. $36 \div 6 =$ _____ | 9. _____ $= \frac{28}{7}$ |
| 10. $7 \cdot 7 =$ _____ | 11. _____ $= \frac{16}{4}$ | 12. _____ $= \frac{63}{7}$ |
| 13. $\frac{32}{8} =$ _____ | 14. _____ $= 7 \cdot 4$ | 15. _____ $= 64 \div 8$ |

Represent the situation with an equation. Solve.

16. Marcie plants 42 tomato plants in 6 equal rows. How many plants are in each row?

Equation: _____

Answer: _____

17. There are 12 slices of toast on a tray. Roberto takes 2 slices. How many slices are on the tray now?

Equation: _____

Answer: _____

18. There are 240 fewer teachers than students at Westside Middle School. There are 10 teachers. How many students are there?

Equation: _____

Answer: _____

19. Al practiced the piano 10 hours this week and 5 hours last week. How many times as many hours did Al practice the piano this week than last week?

Equation: _____

Answer: _____

20. **Stretch Your Thinking** Mrs. Ortiz bought a tablecloth for \$5 and 6 napkins for \$2 each. What was the total cost?

Hint: Use parentheses if you need to.

Equation: _____

Answer: _____

Homework

For each situation, decide whether there is a constant rate.

If yes, write the rate and complete the rate table.

1. Grandma Jackson has 5 plants in each row in her garden.

Is there a constant rate? _____

_____ per _____

Unit	Product
_____	_____
1	_____
2	_____
3	_____

3 •

2. A large bag of potatoes costs \$8 at Season's Produce Store.

Is there a constant rate? _____

_____ per _____

Unit	Product
_____	_____
1	_____
2	_____
3	_____

3 •

3. Write a story for this rate table. Label the columns to tell your story.

Unit	Product
_____	_____
1	7
2	14
3	21
4	28
5	35
6	42
7	49

Solve each Factor Puzzle.

4.

15	21
40	_____

5.

10	_____
18	63

6.

35	15
_____	18

Remembering

Complete each Factor Puzzle.

1.

_____	10	8	_____
_____	15	_____	_____
_____	_____	_____	_____

2.

_____	_____	8	_____
_____	15	20	_____
_____	_____	_____	_____

3.

_____	8	18	_____
_____	_____	63	_____
_____	_____	_____	_____

4.

_____	8	14	_____
_____	36	_____	_____
_____	_____	_____	_____

5.

_____	24	_____	_____
_____	28	63	_____
_____	_____	_____	_____

6.

_____	_____	18	_____
_____	35	42	_____
_____	_____	_____	_____

Represent the situation with an equation. Solve.

7. If Maria places 40 roses equally into 5 vases, how many roses will she put in each vase?

Equation: _____

Answer: _____

8. Ben scored 24 points. Vince scored 8 points. How many fewer points did Vince score than Ben?

Equation: _____

Answer: _____

9. The school library has 400 fiction books. Fifty are paperback and the rest are hardcover. How many of the fiction books are hardcover?

Equation: _____

Answer: _____

10. Julie buys shoes and a shirt. The shoes cost 5 times as much as the shirt. The shirt cost \$6. How much do the shoes cost?

Equation: _____

Answer: _____

11. **Stretch Your Thinking** Jake bought a notebook for \$2 and a package of pens for \$5. How much change did he get back from \$10?

Hint: Use parentheses if you need to.

Equation: _____

Answer: _____

Homework

For each rate situation, find the unit rate and write it using *per*.
Make a rate table that includes the given information as the first row in the table. Continue making a scrambled rate table.

1. Aunt Suzy's rectangular garden has 40 carrot plants in the first 8 rows.

_____ per _____

Unit	Product
_____	_____
1	
	25
	15

2. Each week Aki eats the same number of oranges. In 7 weeks, she ate 28 oranges.

_____ per _____

Unit	Product
_____	_____
1	
4	
	8

3. Every week Noreen eats half a dozen oranges.

_____ per _____

Unit	Product
_____	_____

4. In the spring, David plants 8 tomato plants in each row of his garden.

_____ per _____

Unit	Product
_____	_____

5. Jason saves \$4 every day so that he can buy a basketball hoop.

_____ per _____

Unit	Product
_____	_____

6. Carole feeds her tropical fish 6 pinches of food every day.

_____ per _____

Unit	Product
_____	_____

Remembering

Complete each Factor Puzzle.

1.

15	
27	72

2.

	45
24	54

3.

24	28
30	

4.

14	63
	27

5.

48	
54	63

6.

56	32
	28

Represent the situation with an equation. Solve.

7. In a parking lot, there are 6 rows of cars with 30 cars parked in each row. How many cars are in the lot?

Equation: _____

Answer: _____

8. Andrew jogged 24 miles today. This is 2 times as far as he jogged yesterday. How far did he jog yesterday?

Equation: _____

Answer: _____

9. The cafeteria sold 30 more oranges than apples. The cafeteria sold 270 oranges. How many apples did they sell?

Equation: _____

Answer: _____

10. Ed has 18 red goldfish. He has 6 times as many red goldfish as orange goldfish. How many orange goldfish does he have?

Equation: _____

Answer: _____

11. **Stretch Your Thinking** There are 3 stacks with 8 books each and 4 stacks with 9 books each. How many books are there in all?

Hint: Use parentheses if you need to.

Equation: _____

Answer: _____

Homework

For each table, find the unit price. Then complete the table.

1. At Best Buy Fruits, 9 boxes of strawberries cost \$36. What is the unit price for 1 box? _____

Number of Boxes	Cost in Dollars
1	
9	36
5	
	28
	32
100	

2. At Yummy Fruits, 6 boxes of strawberries cost \$42. What is the unit price for 1 box? _____

Number of Boxes	Cost in Dollars
1	
6	42
10	
	21
	63
	14

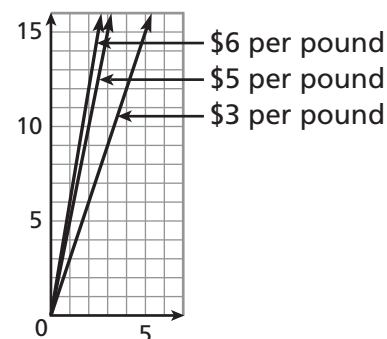
3. a. For Exercises 1 and 2, what assumption did you have to make for these to be constant rate situations?

- b. Is your assumption reasonable?

- c. Describe a situation when the strawberries at Yummy Fruits might be a better buy than the strawberries at Best Buy Fruits.

- d. The graph shows the three lines you graphed in this lesson. Each line shows the cost for a different kind of granola.

Describe where the line for the cost of strawberries at Best Buy Fruits and the line for the cost of strawberries at Yummy Fruits would go on this graph.



Remembering

Complete each Factor Puzzle.

1.

12	8	_____
15	_____	_____
_____	_____	_____

2.

_____	10	_____
12	15	_____
_____	_____	_____

3.

12	_____	_____
27	63	_____
_____	_____	_____

4.

8	_____	_____
28	63	_____
_____	_____	_____

5.

28	32	_____
_____	72	_____
_____	_____	_____

6.

_____	36	_____
56	63	_____
_____	_____	_____

Represent the situation with an equation. Solve.

7. A store had 360 bottles of water. Some of the bottles were sold. Then there were 150 bottles of water. How many bottles were sold?

Equation: _____

Answer: _____

9. A florist sold 4 fewer tulips than roses. The florist sold 80 roses. How many tulips did the florist sell?

Equation: _____

Answer: _____

8. There are 150 girls and 140 boys signed up for the after-school science club. How many students are signed up for the science club?

Equation: _____

Answer: _____

10. Matt's string is 15 inches long. Sabrina's string is 3 times as long as Matt's. How long is Sabrina's string?

Equation: _____

Answer: _____

11. **Stretch Your Thinking** Mario has 9 pictures to hang. He hangs 2 rows with 3 pictures each. How many pictures does he have left to hang?
Hint: Use parentheses if you need to.

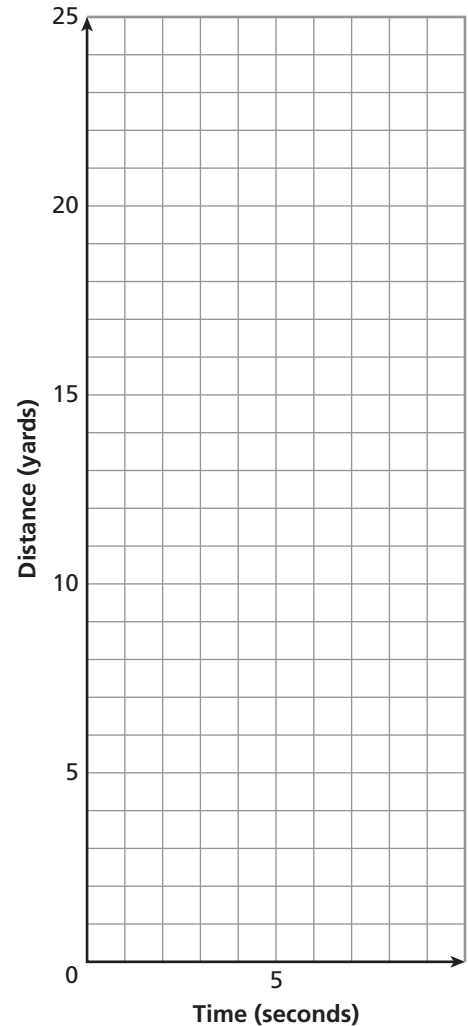
Equation: _____

Answer: _____

Homework

1. Circle the unit rate in the table. Use the unit rate to complete the table.
Draw the graph and show the unit rate triangle.

Time Seconds	Distance Yards
1	6
	18
	24
2	



These rate tables show the speed of three different runners.
Fill in the missing values in each table.

2.

Time Seconds	Distance Yards
1	2
	4
3	
	8
5	

3.

Time Seconds	Distance Yards
1	
2	
	25
8	
10	50

4.

Time Seconds	Distance Yards
	24
1	
4	12
2	
	15

Remembering

Complete each Factor Puzzle.

1.

6	15	_____
8	_____	_____
_____	_____	_____

2.

_____	6	_____
20	15	_____
_____	_____	_____

3.

6	_____	_____
16	56	_____
_____	_____	_____

4.

32	_____	_____
36	63	_____
_____	_____	_____

5.

6	16	_____
_____	56	_____
_____	_____	_____

6.

_____	63	_____
32	72	_____
_____	_____	_____

Represent the situation with an equation. Solve.

7. A vendor has 80 more red balloons than yellow balloons. He has 20 yellow balloons. How many red balloons does he have?

Equation: _____

Answer: _____

9. Kerri buys 3 pens for \$1.50 each. She pays with a \$10 bill. How much change should she get back?

Equation: _____

Answer: _____

8. Sam works in a bakery. If he has 54 bagels and he puts 6 bagels in each bag, how many bags does he use?

Equation: _____

Answer: _____

10. A theater has 10 rows of seats with 8 seats in each row. If 28 people are seated, how many seats are empty?

Equation: _____

Answer: _____

11. **Stretch Your Thinking** A room has 9 tables with 6 chairs each and 7 tables with 8 chairs each. How many chairs are in the room altogether?
Hint: Use parentheses if you need to.

Equation: _____

Answer: _____

Homework

Noreen and Tim plant carrots in their garden. They each plant rows at the same time. Noreen plants 4 carrot seeds in each row. Tim plants 9 carrot seeds in each row.

Rows	N	T
	4	9
1	4	9
2	8	18
3	12	27
4	16	36
5	20	45
6	24	54
7	28	63

	N	T	
	4	9	
+ 4	4	9	+ 9
+	8	18	+
+	12	27	+
+	16	36	+
+	20	45	+
+	24	54	+
+	28	63	+

1. How are the tables alike? How are they different?

2. What are the numbers circled at the top of each table? _____

3. Fill in the numbers to the left and right of the ratio table to show Noreen's and Tim's constant increases.

Use the tables to answer each question.

4. Noreen has planted 12 carrot seeds.
How many has Tim planted?

_____ carrot seeds

How many rows is this? _____ rows

5. Tim has planted 63 carrot seeds.
How many has Noreen planted?

_____ carrot seeds

How many rows is this? _____ rows

Remembering

Complete each Factor Puzzle.

1.

15	35
	63

2.

	27
32	24

3.

40	35
32	

Fill in the missing values in each rate table.

4.

Number of Pounds	Cost in Dollars
1	4
2	
3	
	16
5	
	24

5.

Number of Pounds	Cost in Dollars
1	7
2	
	28
	35
10	
	700

6.

Number of Pounds	Cost in Dollars
1	
8	
	18
6	54
	180
	36

Represent the situation with an equation. Solve.

Use parentheses if you need to.

7. Bob's Bakery sold 10 bags of bagels containing a dozen bagels each and 30 bags of bagels containing a half dozen each. How many bagels did the bakery sell in all?

Equation: _____

Answer: _____

8. **Stretch Your Thinking** Brendan lives 2 miles closer to the library than Jamal does. Jamal lives 1 mile farther from the library than Aisha does. Jamal lives 3 miles from the library. How much closer to the library is Brendan than Aisha?

Equation: _____

Answer: _____

Homework

Make a ratio table for each situation. Be sure to label the columns.

- Noreen and Tim each plant groups of flowers in their gardens. Noreen plants 3 in a group while Tim plants 5 in a group.
- Grammy Suzy's recipe for summer salad is 2 cucumbers for every 3 tomatoes.
- Royal purple paint color is made from 3 cans of red paint and 7 cans of blue paint.

Ratio Table 1

	○	○
+		+
+		+
+		+
+		+
+		+
+		+
+		+

The linking unit is _____.

Ratio Table 2

Batches	○	○

The linking unit is _____.

Ratio Table 3

	○	○

The linking unit is _____.

4. Circle each ratio table below. Write numbers to show the two multiplication columns that are in each ratio table.

A.

○	○
7	3
14	6
21	9
28	12
35	15
42	18
49	21

B.

○	○
2	3
4	5
6	8
8	10
10	13
12	15
14	18

C.

○	○
9	4
18	8
27	12
36	16
45	20
54	24
63	28

D.

○	○
1	1
1	2
1	3
1	4
1	5
1	6
1	7

Remembering

Complete each Factor Puzzle.

1.

10	12
	42

2.

	18
40	15

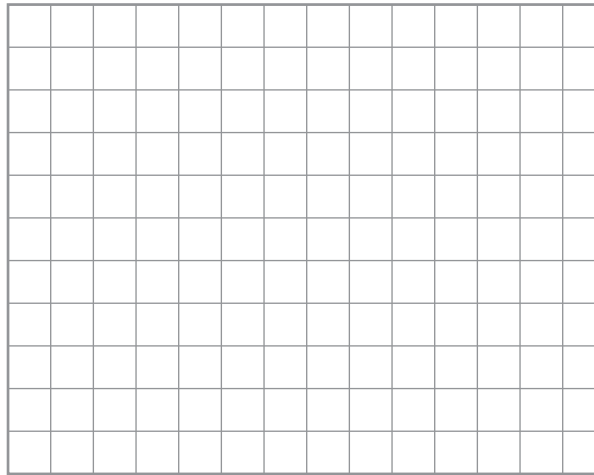
3.

36	63
32	

Fill in the missing values in the rate table. Draw the graph.

4.

Number of Pounds	Cost in Dollars
1	
2	
3	6
	8



Represent the situation with an equation. Solve.

Use parentheses if you need to.

5. Section A in a stadium has 30 rows of seats with 20 seats in each row. Section B has 4 times as many seats as Section A. How many seats are in Section B?

Equation: _____

Answer: _____

6. **Stretch Your Thinking** A balloon vendor sold 225 balloons on Saturday. He sold red, yellow, and blue balloons. He sold 100 red balloons and 25 more red than blue. How many yellow balloons did he sell?

Equation: _____

Answer: _____

Homework

Use Factor Puzzles to solve these proportion problems.

Diana and Walter are twins who both do these activities for the same amount of time but at their own constant rates.

1. a. Diana read 15 pages and Walter read 35 pages. How many pages had Diana read when Walter had read 14 pages?

_____ pages

- b. Fill in the ratio table and circle the rows that make the Factor Puzzle.

2. Diana sold 35 tickets and Walter sold 56 tickets. How many tickets had Walter sold when Diana had sold 15 tickets?

_____ tickets

3. Diana sliced 24 bananas while Walter sliced 16 bananas. When Diana had sliced 21 bananas, how many bananas had Walter sliced?

_____ bananas

4. Walter drew 6 pictures while Diana drew 8 pictures. When Diana had drawn 28 pictures, how many had Walter drawn?

_____ pictures

	D	W	
_____			_____
_____			_____

	D	W	
_____			_____
_____			_____

	D	W	
_____			_____
_____			_____

	D	W	
_____			_____
_____			_____

	D	W	
_____	○	○	_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____

Remembering

Complete each Factor Puzzle.

1.

40	32	_____
35	_____	_____
_____	_____	_____

2.

_____	72	_____
36	81	_____
_____	_____	_____

3.

63	_____	_____
54	48	_____
_____	_____	_____

Solve each rate problem.

4. Sam buys 3 pounds of apples for \$6.
What is the unit rate?

5. Ashley earns \$5 per hour babysitting.
How much will she earn in 3 hours?

6. Marcus walks 9 miles in 3 hours.
What is his unit rate?

7. Mrs. Dunn drives at a constant rate of 55 miles per hour for 2 hours.
How far does she drive?

Represent the situation with an equation. Solve.

Use parentheses if you need to.

8. Jamie took out 4 books from the library. His sister took out 3 times as many. How many books did Jamie and his sister take out altogether?

Equation: _____

Answer: _____

9. There are 9 red apples in a bowl. There are 4 fewer green apples than red apples. How many apples are in the bowl?

Equation: _____

Answer: _____

10. **Stretch Your Thinking** In a video game, Lee scored 500 points. Andrew scored twice as many points as Lee. Ed scored 100 more points than Lee. How many more points did Andrew score than Ed?

Equation: _____

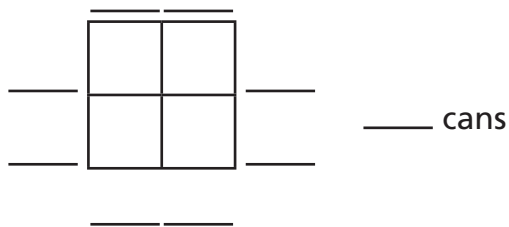
Answer: _____

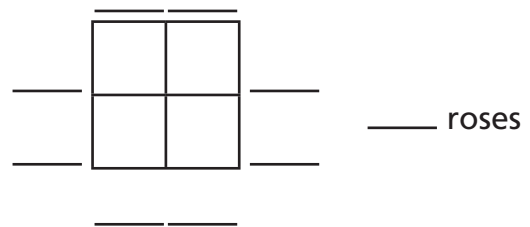
Homework

Tell why the situation is a proportion or write the assumption that must be stated to make the problem a proportion problem.

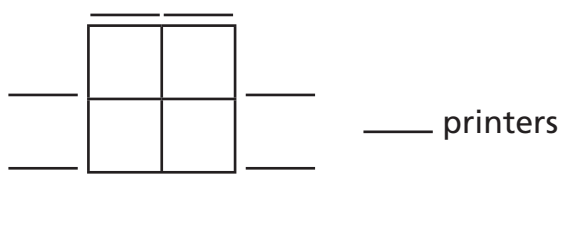
Use a Factor Puzzle to solve the problem.

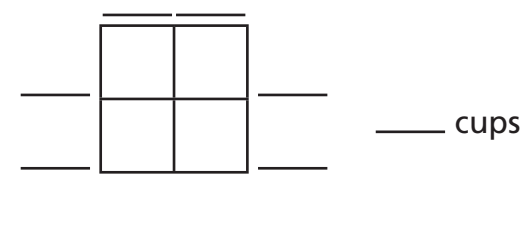
- To make a pale blue paint, Erica mixes 6 cans of blue and 10 cans of white. She has 35 cans of white paint. How many cans of blue does she need to get the same pale blue?
- Friendly Florist sells bunches with 16 daisies and 6 roses. Aunt Lynn wants a large bunch in the same ratio. If she gets 40 daisies, how many roses will she get?





- Central School has 6 printers and 14 computers. If East School has 28 computers, how many printers does it have?
- The twins baked pancakes using 10 cups of mix and 15 eggs. Everyone wants more, but they only have 12 eggs left. How many cups of mix should they use?





Remembering

Complete each Factor Puzzle.

1.

15	24
_____	56

2.

_____	63
56	72

3.

56	_____
63	54

Is the table a ratio table? Write *yes* or *no*.

If yes, write the basic ratio at the top of the table.

4.

○ : ○
5 : 8
10 : 16
15 : 24
20 : 32
25 : 40

5.

○ : ○
2 : 3
4 : 6
6 : 9
7 : 12
12 : 15

6.

○ : ○
7 : 5
14 : 10
21 : 15
28 : 20
35 : 25

7.

○ : ○
6 : 4
12 : 8
20 : 12
22 : 16
24 : 20

Represent the situation with an equation. Solve.

Use parentheses if you need to.

8. The book Maria is reading has 50 pages. Her sister Abigail's book has 3 times as many pages. How many more pages are in Abigail's book than in Maria's book?

Equation: _____

Answer: _____

9. **Stretch Your Thinking** A nut mix contains three kinds of nuts. There are 5 ounces of almonds. The weight of the cashews is triple the weight of the almonds and the weight of the peanuts is 10 ounces more than the weight of the almonds. What is the weight of the mix?

Equation: _____

Answer: _____

Homework

Show the Factor Puzzle for each proportion. Solve.

1. $18:54 = c:42$

$c = \underline{\hspace{2cm}}$

2. $27:63::12:q$

$q = \underline{\hspace{2cm}}$

3. $12:50 = a:75$

$a = \underline{\hspace{2cm}}$

Dear Math Students,

Today I was mixing blue paint and red paint to make purple paint. I mixed 14 cups of blue with 42 cups of red and I got a really nice purple color. I needed more paint. I had 12 more cups of red, so I used this Factor Puzzle to find out how much blue I should mix in. I got my answer, 36 cups.

So, I mixed in 36 cups of blue with the 12 cups of red and the purple color was not the same as the first batch.

Did I do something wrong? Can you help?

Your friend,
Puzzled Penguin

B	R
14	42
12	<input type="text"/>



4. Write a response to Puzzled Penguin.

Remembering

Complete each Factor Puzzle.

1.

42	54
49	

2.

	6
4	3

3.

20	
36	63

Circle each ratio table below. Write numbers to show the two multiplication columns that are in each ratio table.

4.

○ : ○
5 : 7
10 : 14
15 : 28
20 : 35
25 : 42
30 : 49
35 : 63

5.

○ : ○
3 : 7
6 : 14
9 : 21
12 : 28
15 : 35
18 : 42
21 : 49

6.

○ : ○
3 : 4
3 : 8
3 : 12
3 : 16
3 : 20
3 : 24
3 : 28

7.

○ : ○
2 : 5
4 : 10
6 : 15
8 : 20
10 : 25
12 : 30
14 : 35

Represent the situation with an equation. Solve.

Use parentheses if you need to.

8. Marna's display has 3 rows of stamps with 9 stamps in each row. Ned's display has 1 fewer row but 2 more stamps in each row. How many stamps are in Ned's display?

Equation: _____

Answer: _____

9. **Stretch Your Thinking** A fruit basket has 6 apples. It has twice as many oranges as apples and twice as many apples as bananas. How many more oranges than bananas are there?

Equation: _____

Answer: _____

Homework

1. Write a word problem for the proportion $6:15 = n:35$.

Solve.

2. $4:7 :: m:42$

$m =$ _____

3. $3:d :: 27:45$

$d =$ _____

4. What is the basic ratio for $12:27$?

5. The basic ratio for $120:150$ is _____. 6. The basic ratio for $24:56$ is _____.

7. Danny fills each vase with 5 roses and 9 irises. How many irises will he use if he uses 30 roses?

8. Dede's cost ratio for large balloons to small balloons was \$15 to \$6. Her sister Fran's ratio was ■ to \$14. How much did Fran pay for her large balloons?

Remembering

Complete each Factor Puzzle.

1.

_____	7	2	_____
_____	56		_____
_____	_____	_____	_____

2.

_____	36	32	_____
_____		72	_____
_____	_____	_____	_____

3.

_____	72		_____
_____	8	7	_____
_____	_____	_____	_____

Complete each ratio table. Write the basic ratio.

4.

○ : ○
12 :
36 : 63
: 14
28 :
16 :
: 42
: 35

5.

○ : ○
: 35
: 40
9 :
18 :
6 : 10
: 25
12 :

6.

○ : ○
4 :
8 :
: 9
14 : 21
: 18
16 :
10 :

7.

○ : ○
: 14
8 :
: 42
: 28
40 :
56 :
24 : 21

Represent the situation with an equation. Solve.

Use parentheses if you need to.

8. Andy picked 5 tulips. Brianna picked 3 more tulips than Andy. Carley picked 16 tulips. How many times as many tulips did Carley pick than Brianna?

Equation: _____

Answer: _____

9. **Stretch Your Thinking** Mrs. Martinez bakes 5 pans of cornbread and cuts each pan of cornbread so that there are 3 rows with 4 pieces in each row. How many more pieces could she have gotten if she had cut each pan of cornbread so that there were 4 rows with 5 pieces in each row?

Equation: _____

Answer: _____

Homework

Circle the number of the problem that is not a proportion problem. Solve each proportion problem.

1. $3:5 :: 21:r$

$r = \underline{\hspace{2cm}}$

2. $b:7 :: 16:56$

$b = \underline{\hspace{2cm}}$

3. What is the basic ratio for 30:42?

 $\underline{\hspace{2cm}}$

4. The basic ratio for 36:84 is _____.

5. What is the basic ratio for 5:15? _____

6. In the zoo, there are 6 flamingos for every 8 ducks. If there are 20 ducks, how many flamingos are there?

7. Josh and Sally each bike at their own constant rates. Josh bikes 35 miles while Sally bikes 40 miles. If Sally bikes 16 miles, how far does Josh bike?

8. Alice is delivering mail on Maple Street. She has letters for house #4 and #6. If she has letters for #20, what other house does she have letters for?

9. $9:24 :: 24:d$

$d = \underline{\hspace{2cm}}$

Remembering

Complete each Factor Puzzle.

1.

_____	20	45	_____
_____	_____	63	_____
_____	_____	_____	_____

2.

_____	_____	12	_____
_____	35	10	_____
_____	_____	_____	_____

3.

_____	6	_____	_____
_____	48	56	_____
_____	_____	_____	_____

Show the Factor Puzzle for each proportion. Solve.

4. $a:18 = 35:45$

5. $15:12 = b:28$

6. $15:c = 5:2$

$a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

$c = \underline{\hspace{2cm}}$

Represent the situation with an equation. Solve.

Use parentheses if you need to.

7. Yesterday a bakery made 360 bagels. They packed them in bags of 6. They sold 45 bags. How many bags were left?

Equation: _____

Answer: _____

8. Al scored 250 points. This was 25 points more than Ben. Kim scored twice as many points as Ben. What was Kim's score?

Equation: _____

Answer: _____

9. **Stretch Your Thinking** On Wednesday, Felipe drove 150 miles. This was 3 times the distance he drove on Monday and 40 miles more than he drove on Tuesday. How many miles did Felipe drive in the three days?

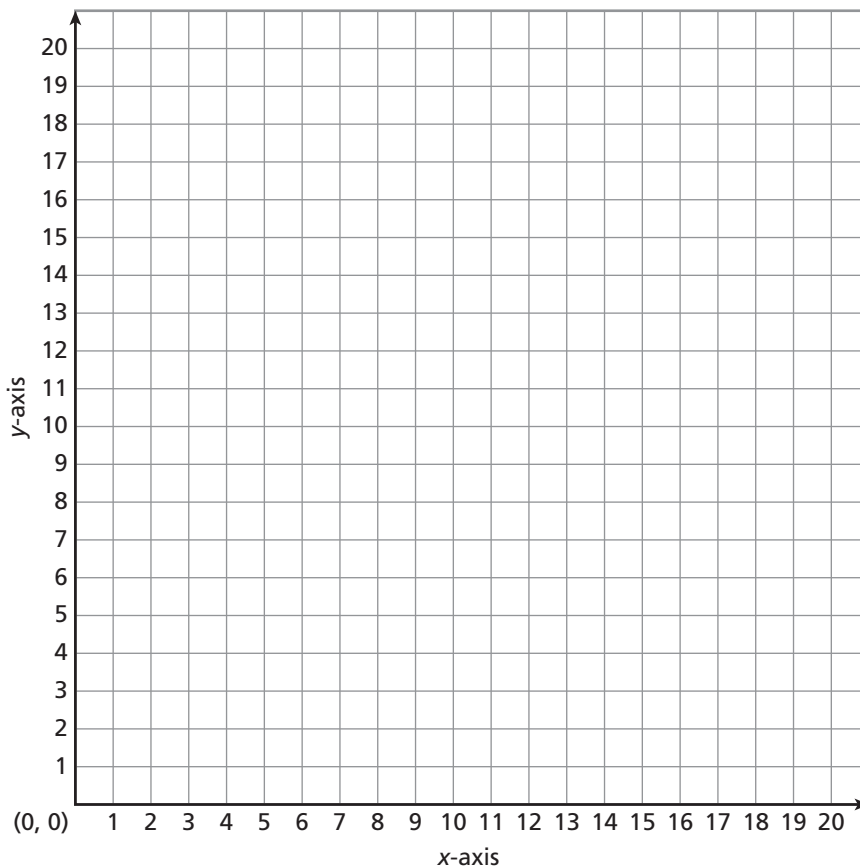
Equation: _____

Answer: _____

Homework

Use your reasoning skills to develop a set of data that will graph as a line. Write your data in the table below, and then plot the ordered pairs to verify that the data plot in a line.

x	y



Remembering

Complete each Factor Puzzle.

1.

_____	32	20	_____
_____		35	_____
_____	_____	_____	_____

2.

_____		28	_____
_____	36	16	_____
_____	_____	_____	_____

3.

_____	2		_____
_____	18	63	_____
_____	_____	_____	_____

Solve each proportion.

4. $24:28 = n:35$

$n = \underline{\hspace{2cm}}$

5. $16:b :: 10:35$

$b = \underline{\hspace{2cm}}$

6. $2:9 = 8:c$

$c = \underline{\hspace{2cm}}$

Write the basic ratio.

7. $36:81$ _____

8. $25:40$ _____

9. $24:64$ _____

Represent the situation with an equation. Solve.

Use parentheses if you need to.

10. Brian planted 6 rows of tulip bulbs with 5 bulbs in each row. This is 3 times as many bulbs as Ester planted. How many bulbs did Ester plant?

Equation: _____

Answer: _____

11. Tickets to the school play cost \$6 for adults and \$4 for students. How many more student tickets than adult tickets can Victoria buy for \$24?

Equation: _____

Answer: _____

12. **Stretch Your Thinking** Ali is 4 years younger than Bee. Cory is twice as old as Ali. Ali is 8 years old. How much older is Cory than Bee?

Equation: _____

Answer: _____