NAME

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Mixing Paint Introduction to Ratios

Vocabulary

Define the term in your own words.

1. ratio

Problem Set

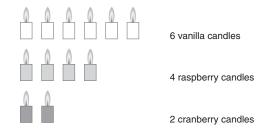
Nina buys a variety box of cereal bars. The box contains 5 blueberry bars, 3 strawberry bars, and 2 apple bars. Write the ratio that represents the relationship.

1. strawberry bars to blueberry bars

3 strawberry bars 5 blueberry bars

- 2. apple bars to blueberry bars
- 3. strawberry bars to total bars
- 4. apple bars to total bars
- 5. blueberry bars to total bars
- 6. apple bars to strawberry bars

Eva is shopping for scented candles. She finds variety boxes which contain 6 vanilla scented candles, 4 raspberry scented candles, and 2 cranberry scented candles. Calculate each value using the model.



- **7.** If Eva purchases enough variety boxes to have 12 vanilla scented candles, how many cranberry scented candles will she have?
 - $\frac{6 \text{ vanilla}}{2 \text{ cranberry}} = \frac{12 \text{ vanilla}}{? \text{ cranberry}}$ $\frac{6 \text{ vanilla}}{2 \text{ cranberry}} \xrightarrow[\rightarrow 2]{\overset{\times 2}{=}} \frac{12 \text{ vanilla}}{4 \text{ cranberry}}$

Eva will have 4 cranberry scented candles.

8. If Eva purchases enough variety boxes to have 6 cranberry scented candles, how many raspberry scented candles will she have?

9. If Eva purchases enough variety boxes to have 24 total candles, how many vanilla scented candles will she have?

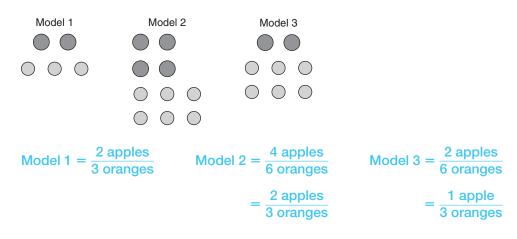
10. If Eva purchases enough variety boxes to have 8 raspberry scented candles, how many cranberry scented candles will she have?

11. If Eva purchases enough variety boxes to have 24 total candles, how many cranberry scented candles will she have?

12. If Eva purchases enough variety boxes to have 36 total candles, how many raspberry scented candles will she have?

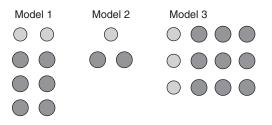
Identify the equivalent ratios in each set.

13. Each model shows a ratio of apples to oranges. Which models show the same ratio?



Model 1 and Model 2 are equivalent ratios.

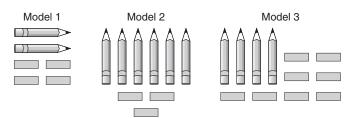
14. Each model shows a ratio of baseballs to footballs. Which models show the same ratio?



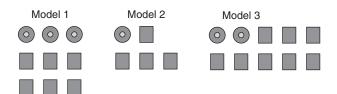
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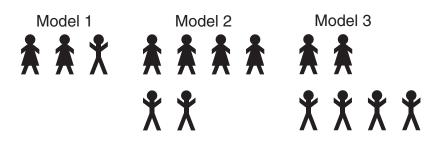
15. Each model shows a ratio of pencils to erasers. Which models show the same ratio?



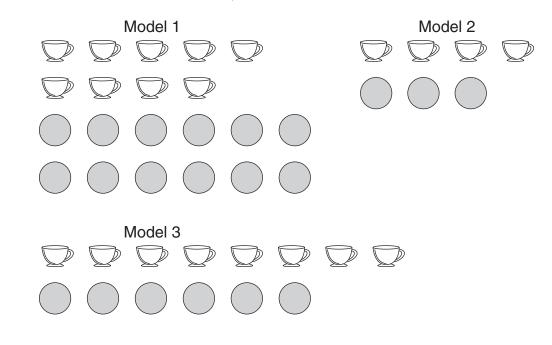
16. Each model shows a ratio of DVDs to books. Which models show the same ratio?



17. Each model shows a ratio of girls to boys. Which models show the same ratio?



18. Each model shows a ratio of cups to saucers. Which models show the same ratio?



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Draw a model to answer each question.

19. At a water fountain, 1 out of every 3 children in line is a girl. How many children are in the line if 6 of them are girls?



There are 18 children in line.

20. In a garden, 4 out of every 5 flowers are roses. How many roses are in the garden if there are a total of 20 flowers?

21. In a basket, 3 out of every 4 eggs are cracked. How many eggs are cracked if there are a total of 28 eggs in the basket?

22. One chicken casserole feeds 6 people. How many casseroles are needed to feed 12 people?

23. A bottle of juice fills 8 cups. How many cups can be filled with 3 bottles of juice?

24. An employer can interview 3 people every hour. How long will it take her to interview 9 people?

NAME

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What's in a Name? Ratio Representations

Problem Set

Write all of the part-to-part ratios described in each problem situation.

1. Of the 200 students surveyed in 5th grade, 120 prefer bananas and 80 prefer apples.

120 prefer bananas80 prefer apples80 prefer apples120 prefer bananas

- 2. Serena's book collection contains 23 fiction books and 4 non-fiction books.
- 3. Wei planted 15 daffodils and 14 day-lilies in her garden.
- **4.** Of the 400 students surveyed, 139 packed lunch and 261 bought lunch from the school cafeteria.
- 5. Raul collected the mail from his mail box. It contains 3 catalogues and 2 bills.
- **6.** Of the 100 students surveyed, 42 prefer to play basketball and 28 prefer to play hockey.

Write all of the part-to-whole ratios described in each problem situation.

7. Of the 100 students surveyed, 53 prefer to watch football and 42 prefer to watch baseball.

53 prefer football 100 total students' 42 prefer baseball 100 total students

8. Kata's movie collection consists of 45 action movies and 31 comedy movies.

- **9.** Juanita received a bouquet of 2 dozen roses. In the bouquet, 12 were red, 6 were white, and 6 were pink.
- **10.** Of the 31 students surveyed, 19 prefer white bread. The remaining students prefer wheat bread.

11. Emilio's vegetable garden consists of 8 tomato plants and 3 zucchini plants.

12. Of the 250 students surveyed, 142 prefer carrots and 97 prefer peas.

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Compare the ratios described in each problem situation.

13. Of the 50 students surveyed, 35 prefer water and 15 prefer juice. Which is greater: the ratio of students who prefer water to the total number of students surveyed or the ratio of students who prefer juice to the total number of students surveyed?

```
\frac{35 \text{ prefer water}}{50 \text{ total students surveyed}} = \frac{7}{10}\frac{15 \text{ prefer juice}}{50 \text{ total students surveyed}} = \frac{3}{10}\frac{7}{10} > \frac{3}{10}
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The ratio of students who prefer water to the total number of students surveyed is greater than the ratio of students who prefer juice to the total number of students surveyed.

14. Of the 51 students surveyed, 34 prefer cereal for breakfast and 17 prefer oatmeal. Which is greater: the ratio of students who prefer cereal to the total number of students surveyed or the ratio of students who prefer oatmeal to the total number of students surveyed?

15. Of the 32 students surveyed, 8 prefer the color red and 24 prefer the color blue. Which is greater: the ratio of students who prefer red to the total number of students surveyed or the ratio of students who prefer blue to the total number of students surveyed?

16. Of the 40 boys surveyed, 24 like to play soccer. Of the 65 girls surveyed, 26 like to play soccer. Which is greater: the ratio of boys who like to play soccer to the total number of boys surveyed or the ratio of girls who like to play soccer to the total number of girls surveyed?

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17. Of the 70 sixth grade students surveyed, 49 plan to attend the spring dance. Of the 60 seventh grade students surveyed, 54 plan to attend the spring dance. Which is greater: the ratio of sixth grade students who plan to attend the spring dance to the total number of sixth grade students surveyed or the ratio of seventh grade students who plan to attend the spring dance to the total number of seventh grade students surveyed?

18. Of the 12 petunias Maria planted, 8 bloomed. Of the 9 marigolds Maria planted, 6 bloomed. Which is greater: the ratio of petunias that bloomed to the total number of petunias planted or the ratio of marigolds that bloomed to the total number of marigolds planted?

Write a ratio described in each problem statement. Identify the ratio as a part-to-part relationship or a part-to-whole relationship.

19. Of the 22 students in a math class, 18 of them received an A on a test.

Sample answer.

18 students received an A 22 total students

The ratio is a part-to-whole relationship.

20. There are 3 adults for every 40 students on the field trip.

21. There are 14 cats and 10 dogs at the shelter.

22. There were 8 seeds planted, but only 5 seeds germinated.

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23. A drink is made from 1 part sugar water and 3 parts lemon juice.

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24. In a movie theater with 100 audience members, 20 people bought their tickets in advance online.

25. Suzanna could play 7 of the 10 songs in her music book.

26. In a bag of marbles, 12 are blue and 15 are green.

 In the time before school, Jorje spent 20 minutes getting dressed for school and 15 minutes eating breakfast.

28. In a poll of 1000 voters, 750 voted for the incumbent.

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I'd Like to Solve the Puzzle ... Writing Equivalent Ratios

Vocabulary

Write the term or phrase from the box that best completes each statement.

rate	scaling up	scaling down
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- **1.** _____ means to multiply the numerator and the denominator of a ratio by the same factor.
- **2.** A ______ is a ratio that compares two quantities that are measured in different units.
- **3.** _____ means to divide the numerator and the denominator of a ratio by the same factor.

Problem Set

Write each rate.

- 1. 4 problems solved per 15 minutes
 2. \$10 earned per hour

 4 problems
 15 minutes
- **3.** 150 cars sold per year

4. 1 mile walked in 13 minutes

5. type 80 words per minute

- 6. 12 inches per foot
- 7. 7 crayons sold per box 8. 90 Japanese yen per 1 US dollar
- **9.** 99¢ per 8 oz. of soup **10.** 43 heartbeats in 30 seconds

Scale up each ratio to complete the proportion.

11. $\frac{60 \text{ beats}}{1 \text{ second}} = \frac{?}{30 \text{ seconds}}$	12. $\frac{40 \text{ apples}}{3 \text{ baskets}} = \frac{?}{12 \text{ baskets}}$
$\frac{60}{1} = \frac{1800}{30}$ 1800 beats	
13. $\frac{2 \text{ teachers}}{26 \text{ students}} = \frac{8 \text{ teachers}}{?}$	14. $\frac{12 \text{ inches}}{1 \text{ foot}} = \frac{?}{18 \text{ feet}}$
15. $\frac{\$39,000}{1 \text{ year}} = \frac{?}{3 \text{ years}}$	$16. \ \frac{18 \text{ pencils}}{1 \text{ box}} = \frac{108 \text{ pencils}}{?}$
17. $\frac{24 \text{ hours}}{1 \text{ day}} = \frac{192 \text{ hours}}{?}$	18. $\frac{1 \text{ mile}}{11 \text{ minutes}} = \frac{?}{143 \text{ minutes}}$

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Scale down each ratio to complete the proportion.

19.	$\frac{18 \text{ miles}}{3 \text{ hours}} = \frac{?}{1 \text{ hour}}$	20.	$\frac{\$750}{5 \text{ days}} = \frac{?}{1 \text{ day}}$
	$\frac{18}{3} = \frac{6}{1}$		
21.	$\frac{\$40}{15 \text{ gallons}} = \frac{?}{3 \text{ gallons}}$	22.	$\frac{1200 \text{ boxes}}{9 \text{ truckloads}} = \frac{?}{3 \text{ truckloads}}$
23.	$\frac{280 \text{ beats}}{4 \text{ seconds}} = \frac{70 \text{ beats}}{?}$	24.	$\frac{520 \text{ cm}}{5.2 \text{ m}} = \frac{260 \text{ cm}}{?}$

NAME

25. $\frac{112 \text{ ounces}}{7 \text{ pints}} = \frac{56 \text{ ounces}}{?}$

26. $\frac{100 \text{ pounds}}{4 \text{ bags}} = \frac{75 \text{ pounds}}{?}$

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Scale up or scale down as needed to complete each proportion.

- **27.** $\frac{60 \text{ in.}}{5 \text{ ft}} = \frac{?}{1 \text{ ft}}$ $\frac{60}{5} = \frac{12}{1}$ **12 inches 28.** $\frac{60 \text{ min}}{1 \text{ hr}} = \frac{?}{3 \text{ hr}}$
- **29.** $\frac{8 \text{ oz}}{1 \text{ cup}} = \frac{32 \text{ oz}}{?}$ **30.** $\frac{48 \text{ oz}}{3 \text{ lb}} = \frac{?}{1 \text{ lb}}$
- **31.** $\frac{24 \text{ hr}}{1 \text{ day}} = \frac{120 \text{ hr}}{?}$ **32.** $\frac{1000 \text{ mm}}{1 \text{ m}} = \frac{4000 \text{ mm}}{?}$
- **33.** $\frac{2 \text{ c}}{1 \text{ pt}} = \frac{?}{4 \text{ pt}}$ **34.** $\frac{12 \text{ qt}}{3 \text{ gal}} = \frac{?}{1 \text{ gal}}$

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The Most Important Meal of the Day Modeling Ratios

Vocabulary

Give an example of the term.

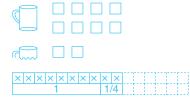
1. double number line

Problem Set

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Draw a model to answer each question.

1. Isabel is serving iced tea to her friends. One pitcher of iced tea will fill 8 glasses. How many pitchers of iced tea does Isabel need to serve 10 glasses?



Isabel needs $1\frac{1}{4}$ pitchers of iced tea.

2. Maria is making breakfast. One breakfast quiche serves 6 people. How many breakfast quiches does Maria need to make in order to serve 15 people?

3. Jamal is distributing tennis balls to kids at tennis camp. Each pair of players gets one sleeve of tennis balls. If Jamal has 5 sleeves of tennis balls, how many kids can Jamal provide with tennis balls?

4. Celia is ordering pizza for a classroom pizza party. Each pizza serves 8 people. How many pizzas does Celia need to serve 28 people?

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5. Franco is bringing an orange for each of his classmates on a school field trip. Each bag of oranges contains 6 oranges. If Franco wants to provide oranges for 14 classmates, how many bags of oranges does he need?

6. Zi is running a children's summer art program. Zi has 4 boxes of crayons that can each be shared by 3 students. How many students can join the program at one time?

7. Rosa has $2\frac{1}{2}$ bottles of juice. A full bottle of juice contains 6 serving. How many servings does Rosa have?

8. A school district requires at least one adult chaperon for every 4 students on an overnight field trip. If 10 basketball players want to attend a tournament that requires an overnight stay, how many adult chaperons must also attend?

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9. Pablo has $1\frac{3}{4}$ bags of mini bagels. A full bag of mini-bagels contains 8 servings. How many servings does Pablo have?

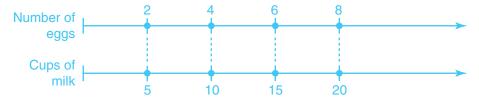
10. Kata is running a painting class. She has 3 art easels for students to share. Each art easel can be shared by two students. How many students can join the class at one time?

Draw a double number line to answer each question.

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11. A recipe calls for 2 eggs for every 5 cups of milk. How many eggs were used if 20 cups of milk were used?

Count by twos up to 8. Use the same tick marks to count by fives to 20.



If 20 cups of milk were used, then 8 eggs were used.

12. A painter used 20 drops of red paint and 45 drops of white paint to make a certain shade of pink. How many drops of white paint should he add to 12 drops of red paint to make the same shade?

13. Helen ran 12 kilometers in 66 minutes. She ran at the same speed the entire time. How many kilometers did she run after 22 minutes?

14. Miguel bought 4 rolls for \$5. How much would he pay for 18 rolls?

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15. Fred paid \$2.18 for $\frac{1}{2}$ pound of trail mix. How much would he pay for $1\frac{1}{4}$ pounds of trail mix?

16. One bag weighs 120 grams. What is the weight of 2.5 bags?

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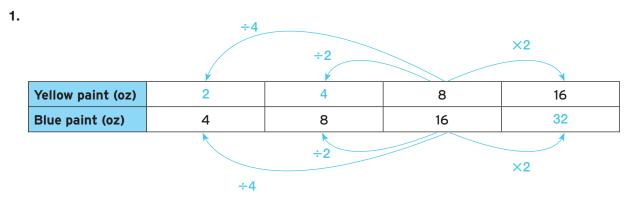
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A Trip to the Moon

Using Tables to Represent Equivalent Ratios

Problem Set

Complete each ratio table. Show your calculations.



2.

Yellow paint (oz)	1	2	10	
Red paint (oz)		6		60

3.

Red paint (oz)	1		50	100
Blue paint (oz)		20		400

4.

Green paint (oz)		15	30	
White paint (oz)	5	25		75

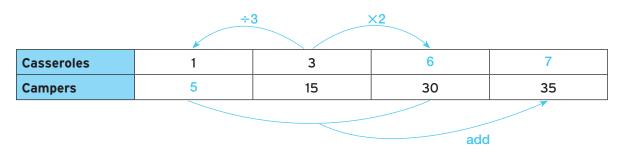
5.

White paint (oz)	2	6	8	
Red paint (oz)	3			36

White paint (oz)	1	3		
Purple paint (oz)		30	40	60

Complete the ratio table to answer each question. Show your calculations.

7. Alberto is in charge of making lunch at a summer camp. He knows that 3 tuna casseroles will serve 15 campers. How many tuna casseroles should Alberto make to serve 35 campers?



Alberto will need 7 tuna casseroles to serve 35 campers.

8. Shawna is mixing red and white paint to create a shade of pink to paint her room. After experimenting, Shawna decides that the perfect shade of pink is created by mixing 3 ounces of red paint and 1 ounce of white paint. How much red and white paint does Shawna need to make 1 gallon of pink paint? (1 gallon = 128 fluid ounces)

Pink Paint (oz)		128
Red Paint (oz)	3	
White Paint (oz)	1	

9. Perry is responsible for distributing soccer balls to the kids at soccer camp. During practice, Perry would like each group of 5 children to share two soccer balls. How many soccer balls does Perry need if 25 kids attend camp?

Soccer balls	2		
Children	5	20	25

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10. Leon is bringing boxes of fruit snacks to class for a holiday party at school. Leon knows that 2 boxes of fruit snacks will serve 11 students. How many boxes of fruit snacks does Leon need to serve 33 students?

Boxes	2		
Students	11	22	33

11. Eva is planting flowers in her garden. Each variety pack of bulbs contains 4 lilies and 6 dahlias. How many dahlias will Eva plant if she plants 12 lilies?

Lilies	4	8	12
Dahlias	6		

12. Olivia is celebrating her birthday at a movie theater. She invites 12 friends for a movie and popcorn. She is told that 1 large bucket of popcorn can be shared by 3 people. How many buckets of popcorn does Olivia need?

Buckets of popcorn	1		
People	3	9	12

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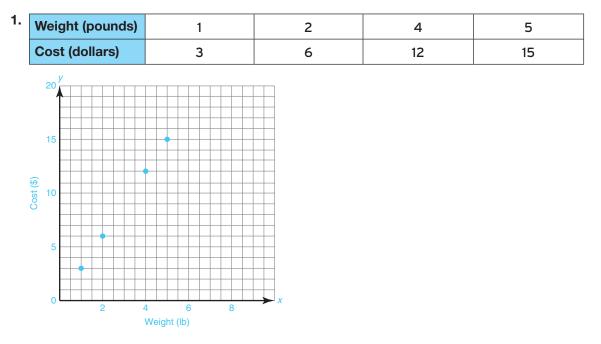
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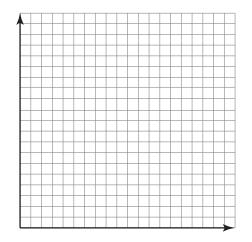
Graphing Out Equivalence Using Graphs to Represent Equivalent Ratios

Problem Set

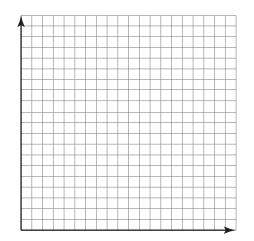
Create a graph that represents the values shown in each ratio table.



2.	Distance (miles)	25	75	125	175
	Time (hours)	1	3	5	7



3.	Calories	alories 80		240	320
	Time (minutes)	15	30	45	60



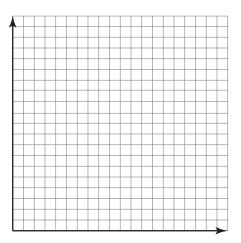
4.	Data (Mb) 10		100	150	200
	Time (seconds)	1	10	15	20

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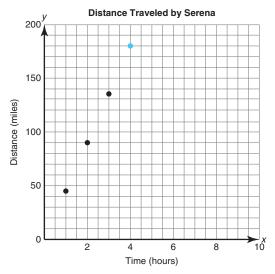
.	Distance (miles)	1.5	3	4.5	6
	Time (minutes)	15	30	45	60
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6.	Height (feet)	6	30	36	60
	Time (minutes)	1	5	6	10



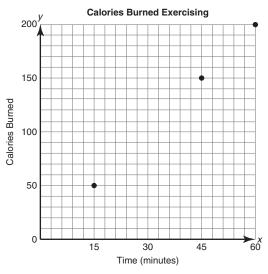
Use a graph to answer each question.

7. Serena is driving to the mountains for a summer camping trip. She is traveling at a constant rate of 45 miles per hour. The graph shows the ratio time : distance. How far has Serena traveled after 4 hours?



After 4 hours, Serena has traveled 180 miles.

8. Cisco is exercising. The graph shows the ratio calories burned : time for Cisco. How many calories did Cisco burn in 30 minutes?

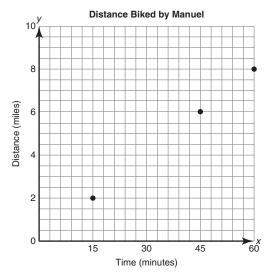


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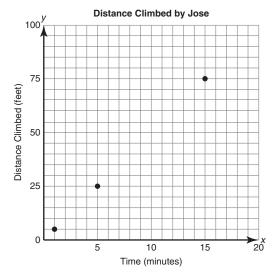
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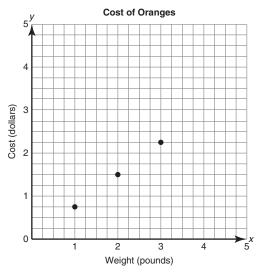
9. Manuel is biking at a constant rate. The graph shows the ratio time : distance. How long did it take Manuel to bike 4 miles?



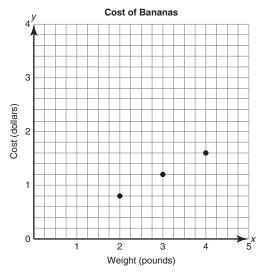
10. Jose is climbing a challenging section of a mountain. The graph shows the ratio time : distance climbed. How far did Jose climb after 10 minutes?



11. Sofia is grocery shopping. Oranges are on sale. The graph shows the ratio cost : weight. How much will it cost Sofia to purchase 4 pounds of oranges?



12. Hector is grocery shopping. Bananas are on sale. The graph shows the ratio cost : weight. If Hector wants to spend \$2, how many pounds of bananas can he purchase?



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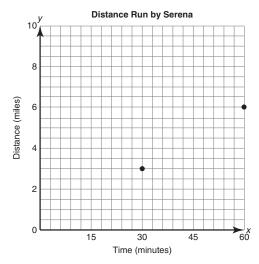
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Water Is a Precious Resource Using Multiple Ratio Representations to Solve Problems

Problem Set

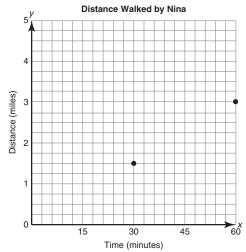
Use the graph to answer each question.

1. Serena is running around a park. The graph shows the ratio time : distance. How far will Serena run after 90 minutes?

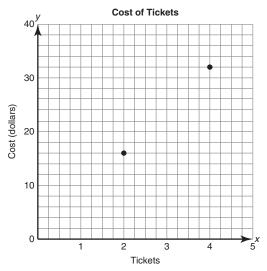


Serena will run 9 miles after 90 minutes.

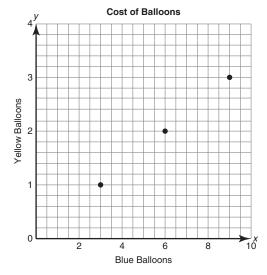
2. Nina is walking around a park. The graph shows the ratio time : distance. How long will it take Nina to walk 4.5 miles?



3. Pablo is buying movie theater tickets. The graph shows the ratio cost : tickets. How much will 7 tickets cost Pablo?



4. Kiana is decorating the gym for the school dance. She wants to maintain a standard ratio for displaying the school colors. The table shows the ratio blue balloons : yellow balloons. If Kiana has 30 blue balloons, how many yellow balloons does she need?



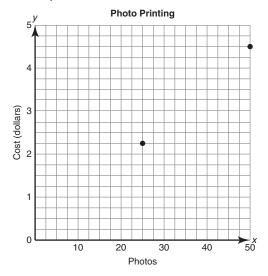
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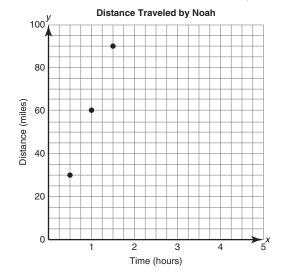
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5. Julian is printing digital photos through an online photo service. The table shows the ratio cost : photos. How much will it cost Julian to print 100 photos?

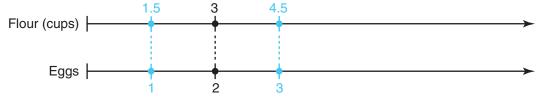


6. Noah is driving to summer camp. The graphs shows the ratio time : distance. How long will it takes Noah to make the 240 mile trip?



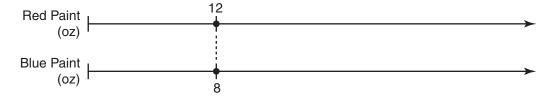
Use a double number line to answer each question.

7. Yuko is making pancakes. The double number line shows the ratio flour : eggs. If Yuko accidentally uses 3 eggs instead of 2 eggs, how much flour should he use?

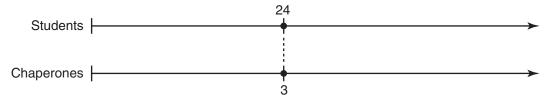


Yuko should use 4.5 cups of flour.

8. Teresa is mixing red paint and blue paint to create a shade of purple paint. The double number line shows the ratio red paint : blue paint. If Teresa has 75 ounces of red paint, how much blue paint does she need?



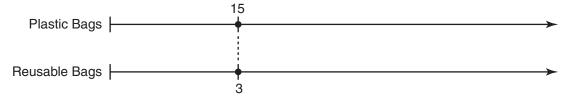
9. Pedro is going on a school field trip. The double number line shows the ratio students : chaperones. If 32 students are going on the field trip, how many chaperones must also go on the trip?



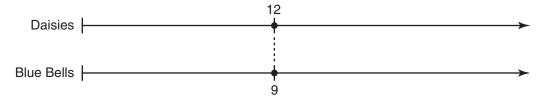
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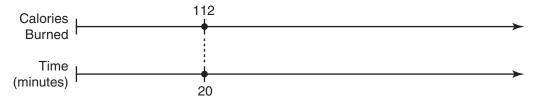
10. Ling is conducting a survey outside of a grocery store. The double number line shows the ratio of customers using reusable shopping bags : customers using plastic bags on a typical day. If there are 50 customers that use plastic bags, how many use reusable shopping bags?



11. Aiko is planting a flower garden. The double number line shows the ratio of daisies : blue bells. If Aiko plants 16 daisies, how many blue bells will she plant?



12. Marcus is exercising. The double number line shows the ratio of calories burned : time. If Marcus exercises for 45 minutes, how many calories will he burn?



NAME

DATE

What Is the Better Buy? Introduction to Unit Rates

Vocabulary

Define the term in your own words.

1. unit rate

Problem Set

Determine each unit rate.

1. \$3.36 for 12 ounces of spaghetti sauce 2. \$38.40 for 16 gallons of gas

 $\frac{\$3.36}{12 \text{ oz}} = \frac{\$0.28}{1 \text{ oz}}$

- **3.** 630 miles on an 18-gallon tank of gas
- 4. \$24 for a book of 15 tickets

5. 4 buses for 112 children

6. 1000 pencils in a case of 100 pencil boxes

5

7. 15 miles jogged in 3.75 hours

8. 6 pies cut into 48 slices

Complete each rate table.

9. The table shows the number of gallons of water per minute an average shower uses.

Number of Minutes	1	2	3	4	5	6	7	8	9	10
Number of Gallons	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0

10. The table shows the average number of hours it takes Henry to mow lawns.

Number of Lawns	1	2	3	4	5	6	7	8	9	10
Number of Hours	0.75									

11. The table shows the cost per pound to ship a package.

Number of Pounds	1	2	3	4	5	6	7	8	9	10
Cost	\$4.40									

12. The table shows the number of vacation days per number of years employed.

Number of Years Employed	1	2	3	4	5	6	7	8	9	10
Number of Vacation Days	1.5									

13. The table shows the number of crayons made per minute.

Number of Minutes	1	2	3	4	5	6	7	8	9	10	
Number of Crayons	165										

14. The table shows the number of dollars earned per hour.

Number of Hours	1	2	3	4	5	6	7	8	9	10
Dollars Earned	\$38									

5

NANE	DATE

Use unit rates to solve each problem. Round to the nearest hundredth, if necessary.

- 15. A banquet hall is preparing for a wedding with 312 guests. If one table will seat 8 guests, how many tables will they need for the wedding?
 ⁸ guests
 1 table
 = ³¹² guests
 39 tables

 The banquet hall will need 39 tables for the wedding.
- **16.** Lynn is traveling in Mexico. She exchanges \$200 for pesos. If the exchange rate is 12.55 pesos per US dollar, how many pesos should she expect to receive from the exchange?

17. About how far can Bryce travel in 4 hours if he can bike an average of 43 kilometers per hour?

18. Shawna needs to buy apples to bake pies for the fair. She needs 13 pounds of apples. At one market, she finds apples selling for \$1.89 a pound. At another market she finds a 15-pound bag of apples for \$26.99. Which market has the better deal?

- 19. Dylan needs to buy new contact lenses. His ophthalmologist sells 8-lens boxes in 2-packs for \$52 and 10-lens boxes in 4-packs for \$120. Which option is the better deal?
- **20.** Pets R Us claims in their advertisement that they have the best price in town for ChowChow dog food. They sell 20-pound bags for \$16.95. Stuff4Pets also claims to have the best price in town for ChowChow dog food. They are selling 30-pound bags for \$24.95. Which store has a valid claim?

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