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Take Home Quiz #1

For use after Section 5.3

Write the ratio as a fraction in simplest form.

- 1. 24 messages: 10 messages
- 2. 5 meters to 20 meters

Use the ratio table to find the unit rate with the specified units.

3. miles per gallon

Gallons	0	2	4	6
Milae	0	31	62	93

4. cost per box

Boxes	3	6	9
Cost	\$3.60	\$7.20	\$10.80

Tell whether the ratios form a proportion.

5.
$$\frac{4}{7}$$
, $\frac{24}{35}$

6.
$$\frac{11}{12}$$
, $\frac{33}{36}$

Tell whether the two rates form a proportion.

- 7. 25 cars in 5 days; 60 cars in 12 days
- 8. 14 books in 2 boxes; 20 books in 3 boxes

Use the table to write a proportion.

9.		Cashews	Peanuts
	Dollars	12	16
	Pounde	3	n

-46	N
- 1	v

		Monday	Tuesday
bossessor vita	Emails	. е	30
Aurianian	Hours	8	10

- 1. _____
- 2
- 3.
- 4. _____
- 5. _____
- 6. _____
- 7.
- 8. _____
- 9.
- 10. _____
- 11.
- 12._____
- 13
- 14. _____

Solve the proportion.

11.
$$\frac{x}{10} = \frac{4}{5}$$

12.
$$\frac{8}{9} = \frac{p}{81}$$

13. The number of pictures your printer can print are shown in the table. Find the rate in pictures per minute.

Minutes	2	4	6	8
Pictures	16	32	48	64

16. _____

- **14.** On Monday, you swim 12 laps in 30 minutes. On Tuesday, you swim 15 laps in 45 minutes. Are these rates proportional? Explain.
- **15.** A chemical compound requires 8 ounces of Chemical A and 12 ounces of Chemical B. A mixture contains 24 ounces of Chemical A and 30 ounces of Chemical B. How can you fix the mixture to make the chemical compound?
- **16.** In an animal shelter, the ratio of dogs to cats is 5 to 3. There are 25 dogs. Write and solve a proportion to find the number c of cats.

Chapter

Take Home Quiz #2

For use after Section 5.6

Solve the proportion.

1.
$$\frac{7}{3} = \frac{b}{18}$$

the points.

2.
$$\frac{10}{9} = \frac{5}{k}$$

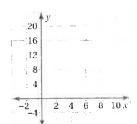
5.

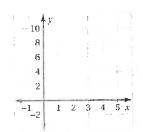
2.
$$\frac{10}{9} = \frac{5}{k}$$
 3. $\frac{3.6}{m} = \frac{1.2}{3.6}$

Answers

Find the slope of the line.

Graph the data. Then find and interpret the slope of the line through





Tell whether x and y show direct variation. Explain your reasoning.

8.
$$xy = 5$$

9.
$$2x = 3y$$

10. _____

10. There are 25 students in a classroom. The ratio of girls to boys is 3 to 2. How many boys and how many girls are there in the classroom?

11. a.____

- 11. The graph shows the distance you and your friend drive on a trip.
 - a. Find and interpret the slope of each line.
 - b. How much faster are you traveling than your friend?

