

**Chapter 8 Practice Test - Show work and make sure all answers are in simplest form.**

1. What is the ratio of question marks to dollar signs?

**\$???\$?\$\$\$\$\$?\$\$**

Answer: \_\_\_\_\_

2. Mark sold 63 tickets to the school play and Nicole sold 56 tickets. What is the ratio of the number of tickets Mark sold to the number of tickets Nicole sold?

Answer: \_\_\_\_\_

3. Complete the statement using  $<$ ,  $>$ , or  $=$ .  
SHOW WORK to support your answer.

4 : 7 \_\_\_\_\_ 8 : 15

4. Find the unit rate. \$5.40 for 6 cans  
SHOW WORK to support your answer.

Answer: \_\_\_\_\_

5. A manufacturer can produce 1386 parts in 6 hours.  
What is the unit rate in parts per hour?  
SHOW WORK to support your answer.

Answer: \_\_\_\_\_

6. Solve the proportion.  $\frac{3}{x} = \frac{15}{35}$

SHOW WORK to support your answer.

Answer: \_\_\_\_\_

7. Which is the best buy?  
SHOW WORK to support your answer.

a. \$25.50 for 15 cartons of milk

b. \$19.80 for 12 cartons of milk

c. \$13.36 for 8 cartons of milk

d. \$8.30 for 5 cartons of milk

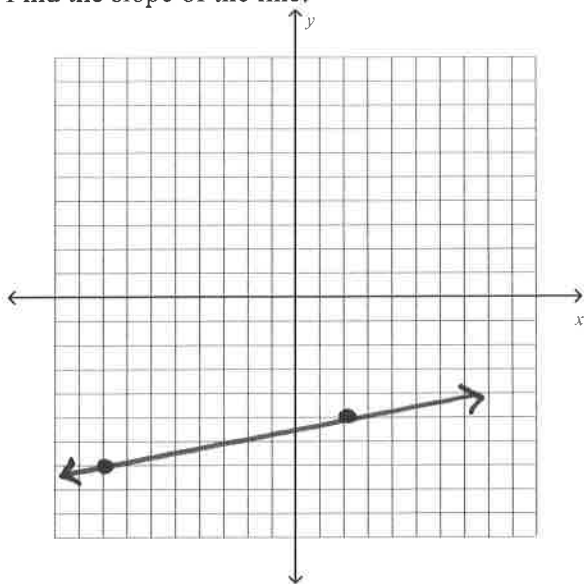
8. Write and then solve the proportion.

12 is to 15 as  $p$  is to 10.

Proportion: \_\_\_\_\_

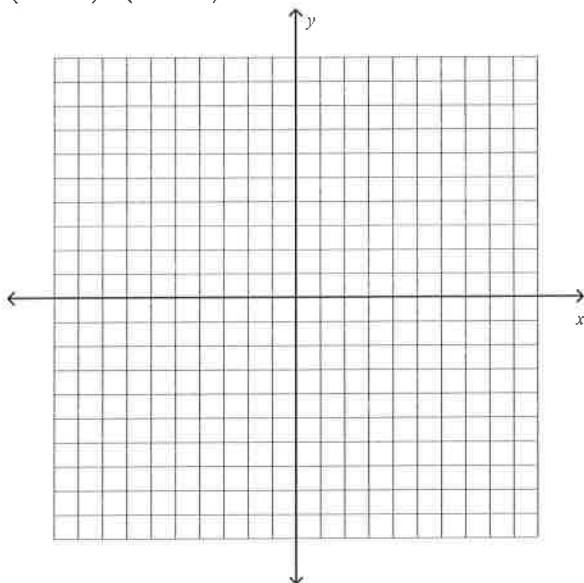
Solution: \_\_\_\_\_

9. Find the slope of the line.



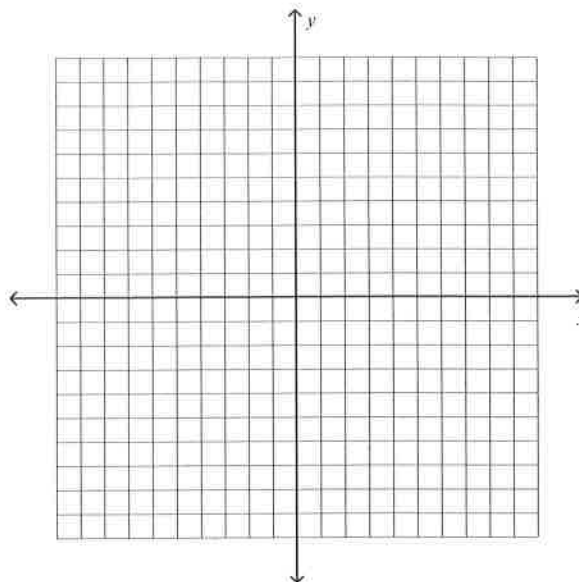
Slope = \_\_\_\_\_

10. Draw the graph of the line that passes through the points. **Then find the slope of the line.**  
 $(-2, 3), (1, -1)$



Slope = \_\_\_\_\_

11. Draw the graph of the line that has a slope of 3 and passes through the point  $(3, 2)$ .



12. A van travels 320 miles on 16 gallons of gas. How many gallons will it need to travel 390 miles?  
 Write a proportion and solve.  
 Proportion:

Solution: \_\_\_\_\_

13. The scale on a map is 2 cm : 9 mi. Find the actual distance in miles for the length of 5 cm on the map.  
 Proportion:

Solution: \_\_\_\_\_

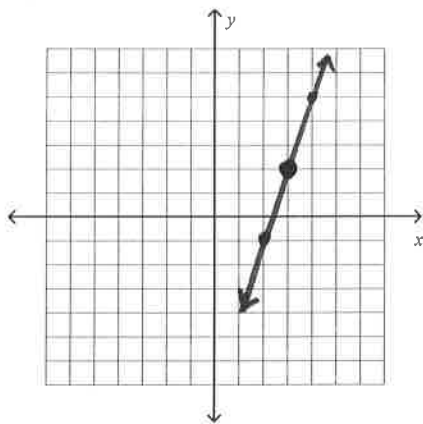
14. A map of Australia has a scale of 1 cm : 125 km. If the distance between Melbourne and Canberra is 463 km, how far apart are they on the map?

Proportion:

Solution: \_\_\_\_\_

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**Answer Section**

1. 1 : 2
2. 9 to 8
3. >
4.  $\frac{.90}{1 \text{ can}}$
5. 231 parts/h
6. 7
7. B
8.  $\frac{12}{15} = \frac{p}{10}; 8$
9.  $\frac{1}{5}$
10.  $-\frac{4}{3}$



- 11.
12. 19.5 gallons
13. 22.5 mi
14. 3.7 cm