

Name: _____

Date: _____

Ratios and Proportions

Solve each problem. Show your work.

1. A model car is built at a scale of 1 : 20. The model is 20 cm long. How long is the real car in centimeters?

Answer: _____

2. y is proportional to x . When $x = 8$, $y = 88$. What is y when $x = 10$?

Answer: _____

3. In a table of a proportional relationship, $x = 5$ and $y = 60$. What is the constant of proportionality?

Answer: _____

4. On a map, 1 cm stands for 25 km. Two towns are 4 cm apart on the map. How far apart are they in real life?

Answer: _____

5. A model car is built at a scale of 1 : 18. The model is 21 cm long. How long is the real car in centimeters?

Answer: _____

6. y is proportional to x . When $x = 8$, $y = 64$. What is y when $x = 12$?

Answer: _____

7. In a table of a proportional relationship, $x = 8$ and $y = 32$. What is the constant of proportionality?

Answer: _____

8. On a map, 1 cm stands for 2 km. Two towns are 12 cm apart on the map. How far apart are they in real life?

Answer: _____

9. A model car is built at a scale of 1 : 10. The model is 41 cm long. How long is the real car in centimeters?

Answer: _____

10. y is proportional to x . When $x = 6$, $y = 18$. What is y when $x = 8$?

Answer: _____

Ratios and Proportions: Answer Key

1. 400 cm

2. 110

3. 12

4. 100 km

5. 378 cm

6. 96

7. 4

8. 24 km

9. 410 cm

10. 24