

Unit 1: Scale Drawings

PRACTICE

Name: _____ Date: _____

Solve each problem. Write your answer as a number, fraction, or ratio in lowest terms unless told otherwise.

1. A scaled copy of a figure is made using a scale factor of 3. A side that is 5 cm in the original is how many cm in the copy?

Answer: _____

3. In a scaled copy, a length of 8 cm corresponds to an original length of 2 cm. What is the scale factor from the original to the copy?

Answer: _____

5. On a scale drawing, the scale is 1 cm to 4 m. A wall drawn 7 cm long represents how many meters in real life?

Answer: _____

7. A scale drawing of a garden uses a scale of 2 cm to 5 m. A path is 15 m long in real life. How long is it on the drawing, in cm?

Answer: _____

9. The original figure has an area of 10 square cm. A scaled copy is made with a scale factor of 4. What is the area of the copy, in square cm?

Answer: _____

2. A scaled copy uses a scale factor of $\frac{1}{4}$. A segment that is 12 in in the original is how many inches in the copy?

Answer: _____

4. A rectangle is 6 cm by 9 cm. A scaled copy has a scale factor of $\frac{2}{3}$. What is the length of the side that corresponds to the 9 cm side, in cm?

Answer: _____

6. A map uses a scale of 1 cm to 50 km. Two cities are 320 km apart. How many cm apart are they on the map?

Answer: _____

8. A square has side length 4 cm. A scaled copy is made with scale factor 3. What is the area of the copy, in square cm?

Answer: _____

10. A scaled copy is made with a scale factor of $\frac{1}{2}$. If the original area is 48 square cm, what is the area of the copy, in square cm?

Answer: _____

11. A scale drawing has a scale of 1 in to 6 ft. What is the actual length, in feet, represented by a 3.5 in measurement on the drawing?

Answer: _____

12. One scaled copy of a triangle uses scale factor 2, and a second scaled copy of that new copy uses scale factor 5. What single scale factor takes the original triangle to the final copy?

Answer: _____