Unit 1: Scale Drawings

PRACTICE · SET 2

Name: _____ Date: _____

Solve each problem. Write your answer as a number, fraction, or ratio in lowest terms. Show no work needed—just the final answer.

1. A scaled copy is made using a scale factor of 3. If a side in the original figure is 5 cm long, how long is the corresponding side in the copy?

Answer: _____

2. A scaled copy uses a scale factor of 1/4. A segment in the original is 20 in long. How long is the corresponding segment in the copy?

Answer: _____

3. In a scaled copy, a side that was 8 cm in the original is now 12 cm. What is the scale factor? Give your answer as a fraction in lowest terms.

Answer: _____

4. A scale drawing uses the scale 1 cm : 50 km. A road is drawn 7 cm long. What is the actual length of the road in km?

Answer: _____

5. A map has a scale of 1 in : 25 mi. Two towns are 300 mi apart in real life. How many inches apart are they on the map?

Answer: _____

6. Figure B is a scaled copy of Figure A with scale factor 4. The area of Figure A is 6 square units. What is the area of Figure B in square units?

Answer: _____

7. A scaled copy is made with scale factor 2/3. If the original perimeter is 18 cm, what is the perimeter of the copy in cm?

Answer: _____

8. A rectangle 4 cm by 9 cm is scaled by a factor of 5. What is the area of the scaled rectangle in square cm?

Answer: _____

9. Figure P is scaled to Figure Q. A length of 10 cm in P corresponds to 4 cm in Q. What is the scale factor from P to Q? Give your answer as a fraction in lowest terms.

Answer: _____

10. A blueprint uses a scale of 2 cm : 3 m. A wall is 24 m long. How many cm long is the wall on the blueprint?

Answer: _____

11. A scaled copy has scale factor 3. The area of the copy is 45 square units. What is the area of the original figure in square units?

Answer: _____

12. A scale drawing uses 1 cm : 8 km. On the drawing, a river is 6.5 cm long. What is the actual length of the river in km?

Answer: _____