

Ratio & Proportion

Scale Drawings & Maps

Solve, using a proportion.

1. If 4 inches represents 100 miles on a scale drawing, how long would a line segment be that represents 50 miles?
2. On a map drawn to scale, 7 cm represents 280 km. How many kilometers are represented by a line 8 centimeters long?
3. On a scale drawing, 4 inches represents 25 miles. If a line segment on the drawing is 6 inches long, what distance does this line segment represent?
4. On a map drawn to scale, 2 cm represents 870 km. How long would a line segment be that represents 130 kilometers?
5. If 3 inches represents 90 miles on a scale drawing, how long would a line segment be that represents 240 miles?

6. On a scale drawing, 2 inches represents 30 feet. How many inches long is a line segment that represents 10 feet?

7. On a scale drawing of a planned office space, one inch represents 6 feet. How wide is the conference room if the width in the drawing is 3 inches?

8. If 2 cm represents 75 miles on a scale drawing, how long would a line segment be that represents 50 miles?

9. If 1 inch represents 8 miles on a map drawing, how many inches would represent 50 miles?

10. On a scale drawing of a house plan, one inch represents 10 feet. How many feet wide is the master bedroom, if the width in the drawing is 2.5 inches?