

Lesson 11T ~ Scale Drawings

Name _____ Period _____ Date _____

A map has a scale 1 inches : 2 miles. Use the given map distance to find the actual distance.

1. 3 *in* Write a proportion. $\frac{1 \text{ inch}}{2 \text{ miles}} = \frac{3 \text{ inches}}{x \text{ miles}}$ \rightarrow $\frac{1}{2} = \frac{3}{x}$
Solve the proportion.

The actual distance on the map is _____ miles.

2. 10 *in*

3. 12 *in*

4. 2.5 *in*

A map has a scale 1 inch : 10 kilometers. Use the given actual distance to find the map distance.

5. 100 *km* Write a proportion. $\frac{1 \text{ inch}}{10 \text{ kilometers}} = \frac{x \text{ inches}}{100 \text{ kilometers}}$ \rightarrow $\frac{1}{10} = \frac{x}{100}$
Solve the proportion.

The map distance is _____ inches.

6. 30 *km*

7. 40 *km*

8. 45 *km*

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A map has a scale 1 inches : 10 miles. Use the given map distance to find the actual distance.

1. 3 *in*
2. 7.5 *in*
3. 1 *ft*
4. 18 *in*

A map has a scale 1 inch : 5 kilometers. Use the given actual distance to find the map distance.

5. 100 *km*
6. 45 *km*
7. 72 *km*
8. 9.5 *km*

The cities of Lincoln City and Newport are 36 miles apart. Given the distance between the cities on each map, find the scale of each map.

9. 6 inches
10. 1 foot

11. A wall is 4 inches long in a scale drawing. The actual wall is 12 feet long. Find the scale of the drawing.

12. A sofa is 6 feet long. In a scale drawing, the sofa is 3 inches long. Find the scale of the drawing.

13. A blue print of a house has a scale of 1 inch : 2 feet.

a. Find the actual length of a wall that is 7 *in* on the blueprint.

b. Find the actual height of a door that is 4 *in* on the blueprint.

14. You are building a model of a new roller coaster with a scale 1 : 51. The model is 4 *ft* tall. How tall is the actual roller coaster?