

## Practice 4-6

### Scale Models and Maps

The scale of a map is 1 in. : 40 mi. How many actual miles does each measurement on the map represent?

1. 3 in.

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2. 1.5 in.

\_\_\_\_\_

3.  $7\frac{3}{4}$  in.

\_\_\_\_\_

Suppose you want to make a map with scale 1 in. : 12 mi. How many inches does each distance occupy on the map?

4. 60 mi

\_\_\_\_\_

5. 9 mi

\_\_\_\_\_

6. 40 mi

\_\_\_\_\_

Solve.

7. Two cities on a map were  $2\frac{1}{4}$  in. apart. The cities are actually 56.25 mi apart. What scale was used to draw the map?

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8. Four ounces of a certain perfume cost \$20.96. How much would six ounces of perfume cost?

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9. The human brain weighs about 1 lb for each 100 lb of body weight. What is the approximate weight to the nearest ounce of the brain of a person weighing 85 lb?

\_\_\_\_\_

10. Two towns are 540 km apart. If the scale on the map is 2 cm to 50 km, how far apart are the towns on the map?

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11. Cans of tuna cost \$1.59 for  $6\frac{1}{2}$  oz. At that rate, how much would 25 oz of tuna cost?

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12. Students are building a model of a volcano. The volcano is about 8,000 ft tall. The students want the model to be 18 in. tall. What scale should they use?

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13. A certain shade of paint requires 3 parts of blue to 2 parts of yellow to 1 part of red. If 18 gal of that shade of paint are needed, how many gal of blue are needed?

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## Puzzle 4-6

### Scale Models and Maps

A hiking group is planning to visit some of the national parks in California. They are going to map out the top five national parks that the group has researched. The group is going to spend the first day of their trip in Fresno, California. Each centimeter on their map represents 60 miles. Help the group figure out how many miles they would have to travel from Fresno to visit each of the parks.

National Park	Map Distance (cm)	Actual Travel Distance (miles)
Channel Islands	3.8	
Joshua Tree	6	
Lassen Volcanic	5.9	
Sequoia & Kings Canyon	0.1	
Yosemite	1.1	

The correct distances will guide you through the table.

Start	228	360	354	108
184	196	217	6	250
297	328	354	66	End