Answer Key · Lesson 7.4: Scale Drawings and Maps

School Launch · Pre-Algebra · Unit 7 · Worksheet A · for the parent

Key

1. 100 miles

On a map, 1 inch represents 20 miles. Two towns are 5 inches apart on the map. How far apart are they?

2. 350 miles

On a map, 1 inch represents 25 miles. Two towns are 14 inches apart on the map. How far apart are they?

3. 125 miles

On a map, 1 inch represents 25 miles. Two towns are 5 inches apart on the map. How far apart are they?

4. 280 miles

1. $14 \times 20 = 280$

On a map, 1 inch represents 20 miles. Two towns are 14 inches apart on the map. How far apart are they?

5. 425 miles

1. $8.5 \times 50 = 425$

On a map, 1 inch represents 50 miles. Two towns are 8.5 inches apart on the map. How far apart are they?

6. 300 miles

1. $12 \times 25 = 300$

On a map, 1 inch represents 25 miles. Two towns are 12 inches apart on the map. How far apart are they?

7. 75 miles

1. $3 \times 25 = 75$

On a map, 1 inch represents 25 miles. Two towns are 3 inches apart on the map. How far apart are they?

8. 2812.5 sq ft

1. Real size: $3 \times 25 = 75$ ft by $1.5 \times 25 = 37.5$ ft
2. Area $= 75 \times 37.5 = 2812.5$ sq ft

On a farm plan, 1 inch stands for 25 feet. The barn is drawn 3 in by 1.5 in. What is the real floor area of the barn in square feet?

9. 4687.5 sq ft

1. Real size: $2.5 \times 25 = 62.5$ ft by $3 \times 25 = 75$ ft
2. Area $= 62.5 \times 75 = 4687.5$ sq ft

On a farm plan, 1 inch stands for 25 feet. The barn is drawn 2.5 in by 3 in. What is the real floor area of the barn in square feet?

10. $6{,}600$ sq ft

1. Real size: $5.5 \times 20 = 110$ ft by $3 \times 20 = 60$ ft
2. Area $= 110 \times 60 = 6600$ sq ft

On a farm plan, 1 inch stands for 20 feet. The barn is drawn 5.5 in by 3 in. What is the real floor area of the barn in square feet?