

# Guided Practice

## 7.1

NAME \_\_\_\_\_

Module 7 Ratio, Proportion, and Percent  
Lesson 1 Square Roots

### Set 1

1

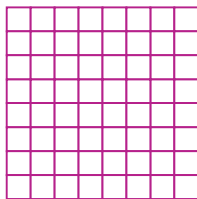
Is 32 a square number?

**No; 32 cannot be modeled by an array that forms a square.**

2

Is 64 a square number?

**YES**



$$8 \times 8 = 64$$

3

Is 40 a square number?

**No; 40 cannot be modeled by an array that forms a square.**

### Set 2

Evaluate.

1

$$\sqrt{100} + 2^3$$

$$\sqrt{100} + 2^3$$

$$10 + 8$$

$$18$$

2

$$\sqrt{49} + 3^2$$

$$\sqrt{49} + 3^2$$

$$7 + 9$$

$$16$$

3

$$4^2 + \sqrt{81}$$

$$4^2 + \sqrt{81}$$

$$16 + 9$$

$$25$$

Set 3

1

Kody has square ceiling tiles that are three feet on each side. How many of these tiles will Kody need to cover a square ceiling with an area of 81 square feet?

$$\text{Tiles: } A = 3^2 = 9 \text{ ft}^2 \text{ each}$$

$$\text{Ceiling: } A = 81 \text{ ft}^2$$

$$\text{Number needed: } 81 \div 9 = 9$$

**Kody will need nine tiles.**

2

Josiah measured the distance around a square park to be 28 miles. What is the area of the park?

$$P = 28 \text{ mi}$$

$$s = 28 \div 4 = 7 \text{ mi}$$

$$A = s^2$$

$$A = 7^2$$

$$A = 49 \text{ mi}^2$$

**The area of the park is 49 square miles.**