## **LESSON** Practice A

Complete the Circled Questions

# 1-3 Square Roots

Identify perfect squares that are closest in value to these numbers.

**1.** 47

**2.** 119

perfect square < 47 \_\_\_\_\_

perfect square < 119 \_\_\_\_\_

perfect square > 47 \_\_\_\_\_

perfect square > 119 \_\_\_\_\_

Estimate to the nearest whole number.

**3.**  $\sqrt{55}$ 

**4.**  $\sqrt{92}$ 

**5.**  $\sqrt{135}$ 

Estimate to the nearest tenth.

**6.**  $\sqrt{42}$ 

**7.**  $\sqrt{76}$ 

**8.**  $\sqrt{90}$ 

Simplify each expression. Use perfect square factors to help you.

**9.** $\sqrt{48}$ 

 $\sqrt{75}$ 

(11.)  $-\sqrt{576}$ 

**(12.)**  $\sqrt{45}$ 

**13**  $\sqrt{72}$ 

**14.**  $\sqrt{200}$ 

Simplify each expression.

**15.**  $\sqrt{3} \cdot \sqrt{12}$ 

**16.**  $\frac{\sqrt{128}}{\sqrt{2}}$ 

 $\frac{-4\sqrt{8}}{3}$ 

Add or subtract.

- **18.**  $3\sqrt{5} + 4\sqrt{5}$
- **19)**  $2\sqrt{9} 2\sqrt{2}$
- **(20)**  $-3\sqrt{15n} + 7\sqrt{15n}$

#### **TEKS** 2A.2.A



## Practice B

### Complete the Circled Questions

### Estimate to the nearest tenth.

**2.** 
$$-\sqrt{57}$$

**3.** 
$$\sqrt{39}$$

### Simplify each expression.

$$\sqrt{243}$$

**5.** 
$$\frac{\sqrt{90}}{\sqrt{40}}$$

**6.** 
$$\sqrt{42} \cdot \sqrt{3}$$

$$7.$$
  $-\frac{4}{\sqrt{144}}$ 

**8.** 
$$\sqrt{\frac{125}{5}}$$

### Simplify by rationalizing each denominator.

$$\frac{6}{\sqrt{5}}$$

$$\frac{-3\sqrt{15}}{\sqrt{3}}$$

12) 
$$\frac{\sqrt{13}}{4\sqrt{6}}$$

#### Add or subtract.

**(13.)**
$$7\sqrt{5} - 10\sqrt{5}$$

$$(14.)$$
12 $\sqrt{3}$  + 3 $\sqrt{12}$ 

**15.** 
$$-6\sqrt{50} + 4\sqrt{32}$$

#### Solve.

(16) A building has a mural painted on an outside wall. The mural is a square with an area of 14,400 ft<sup>2</sup>. What is the width of the mural?