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. √55

4. √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. $\sqrt{48}$

10. $\sqrt{75}$

11. $-\sqrt{576}$

12. $\sqrt{45}$

13 $\sqrt{72}$

14. $\sqrt{200}$

Simplify each expression.

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

(6.) $\frac{\sqrt{128}}{\sqrt{2}}$

 $67.0 \frac{-4\sqrt{8}}{3}$

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 1-3 Square Roots

Complete the Circled Questions

Estimate to the nearest tenth.

1.
$$\sqrt{78}$$

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

3.
$$\sqrt{39}$$

Simplify each expression.

4.
$$\sqrt{243}$$

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

$$\sqrt{7.0}$$
 $-\frac{4}{\sqrt{144}}$

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

Simplify by rationalizing each denominator.

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

11)
$$\frac{-3\sqrt{15}}{\sqrt{3}}$$

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.

A building has a mural painted on an outside wall. The mural is a square with an area of 14,400 ft². What is the width of the mural?