

Square Roots Practice Test

Simplify.

1) $\sqrt{128}$

2) $\sqrt{252}$

3) $\sqrt{200}$

4) $6\sqrt{28}$

5) $-2\sqrt{392}$

6) $-6\sqrt{16}$

7) $-3\sqrt{2} - 2\sqrt{2}$

8) $-3\sqrt{3} - 3\sqrt{3}$

9) $-3\sqrt{2} + 2\sqrt{2}$

10) $\sqrt{6} + \sqrt{6}$

11) $\sqrt{5} + \sqrt{5}$

12) $\sqrt{2} + \sqrt{18}$

$$13) -\sqrt{18} - 2\sqrt{18}$$

$$14) -2\sqrt{5} - \sqrt{45}$$

$$15) \sqrt{10} \cdot \sqrt{5}$$

$$16) -2\sqrt{3} \cdot -\sqrt{15}$$

$$17) -3\sqrt{6} \cdot 3\sqrt{2}$$

$$18) \sqrt{15}(5\sqrt{6} + \sqrt{2})$$

$$19) \sqrt{6}(\sqrt{15} + 2)$$

$$20) \sqrt{15}(6 + \sqrt{6})$$

Square Roots Practice Test

Date _____

Simplify.

1) $\sqrt{128}$
 $8\sqrt{2}$

2) $\sqrt{252}$
 $6\sqrt{7}$

3) $\sqrt{200}$
 $10\sqrt{2}$

4) $6\sqrt{28}$
 $12\sqrt{7}$

5) $-2\sqrt{392}$
 $-28\sqrt{2}$

6) $-6\sqrt{16}$
 -24

7) $-3\sqrt{2} - 2\sqrt{2}$
 $-5\sqrt{2}$

8) $-3\sqrt{3} - 3\sqrt{3}$
 $-6\sqrt{3}$

9) $-3\sqrt{2} + 2\sqrt{2}$
 $-\sqrt{2}$

10) $\sqrt{6} + \sqrt{6}$
 $2\sqrt{6}$

11) $\sqrt{5} + \sqrt{5}$
 $2\sqrt{5}$

12) $\sqrt{2} + \sqrt{18}$
 $4\sqrt{2}$

$$13) -\sqrt{18} - 2\sqrt{18}$$
$$-9\sqrt{2}$$

$$14) -2\sqrt{5} - \sqrt{45}$$
$$-5\sqrt{5}$$

$$15) \sqrt{10} \cdot \sqrt{5}$$
$$5\sqrt{2}$$

$$16) -2\sqrt{3} \cdot -\sqrt{15}$$
$$6\sqrt{5}$$

$$17) -3\sqrt{6} \cdot 3\sqrt{2}$$
$$-18\sqrt{3}$$

$$18) \sqrt{15}(5\sqrt{6} + \sqrt{2})$$
$$15\sqrt{10} + \sqrt{30}$$

$$19) \sqrt{6}(\sqrt{15} + 2)$$
$$3\sqrt{10} + 2\sqrt{6}$$

$$20) \sqrt{15}(6 + \sqrt{6})$$
$$6\sqrt{15} + 3\sqrt{10}$$