

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Simplify the Radicals

1 )  $\sqrt{108} =$

2 )  $\sqrt{27} =$

3 )  $\sqrt{144} =$

4 )  $\sqrt{245} =$

5 )  $\sqrt{24} =$

6 )  $\sqrt{36} =$

7 )  $\sqrt{4} =$

8 )  $\sqrt{128} =$

9 )  $\sqrt{196} =$

10 )  $\sqrt{9} =$



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### Simplify the Radicals

$$1) \quad \sqrt{108} = \sqrt{36 \times 3} = \sqrt{36} \times \sqrt{3} = 6\sqrt{3}$$

$$2) \quad \sqrt{27} = \sqrt{9 \times 3} = \sqrt{9} \times \sqrt{3} = 3\sqrt{3}$$

$$3) \quad \sqrt{144} = 12$$

$$4) \quad \sqrt{245} = \sqrt{49 \times 5} = \sqrt{49} \times \sqrt{5} = 7\sqrt{5}$$

$$5) \quad \sqrt{24} = \sqrt{4 \times 6} = \sqrt{4} \times \sqrt{6} = 2\sqrt{6}$$

$$6) \quad \sqrt{36} = 6$$

$$7) \quad \sqrt{4} = 2$$

$$8) \quad \sqrt{128} = \sqrt{64 \times 2} = \sqrt{64} \times \sqrt{2} = 8\sqrt{2}$$

$$9) \quad \sqrt{196} = 14$$

$$10) \quad \sqrt{9} = 3$$

