

**Assignment**

Date \_\_\_\_\_ Period \_\_\_\_\_

© 2012 Kuta Software LLC. All rights reserved.

**Simplify.**

1)  $\sqrt{2} \cdot \sqrt{10}$

2)  $\sqrt{20} \cdot \sqrt{5}$

3)  $\sqrt{3} \cdot \sqrt{6}$

4)  $\sqrt{10} \cdot \sqrt{20}$

5)  $\sqrt{20} \cdot \sqrt{20}$

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

7)  $\sqrt{10} \cdot \sqrt{10}$

8)  $\sqrt{3} \cdot \sqrt{2}$

9)  $\sqrt{3} \cdot \sqrt{20}$

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

11)  $\sqrt{3}(-\sqrt{6} + 5\sqrt{10})$

12)  $-2\sqrt{3}(\sqrt{6} + \sqrt{10})$

13)  $-\sqrt{6}(\sqrt{6} + \sqrt{2})$

14)  $2\sqrt{5}(2 + 3\sqrt{5})$

15)  $4\sqrt{15}(5 - 2\sqrt{5})$

16)  $\sqrt{2}(4 + 4\sqrt{2})$

17)  $\sqrt{2}(-2\sqrt{10} + \sqrt{3})$

18)  $5\sqrt{15}(-4\sqrt{6} + \sqrt{2})$

19)  $\sqrt{2}(2 + \sqrt{5})$

20)  $\sqrt{5}(\sqrt{10} + 3)$