

## Multiplying Radicals

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

**Simplify.**

1)  $\sqrt{12} \cdot \sqrt{15}$

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

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

4)  $\sqrt{3}(\sqrt{6} + \sqrt{5})$

5)  $-3\sqrt{5}(4 + \sqrt{10})$

6)  $-2\sqrt{6}(5 + 2\sqrt{3})$

7)  $(7\sqrt{6} + 2)(-4\sqrt{6} - 1)$

## Answers to Multiplying Radicals

1)  $6\sqrt{5}$

2) 2

3) 8

4)  $3\sqrt{2} + \sqrt{15}$

5)  $-12\sqrt{5} - 15\sqrt{2}$

6)  $-10\sqrt{6} - 12\sqrt{2}$

7)  $-170 - 15\sqrt{6}$