

**Simplifying Radicals**

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

**Simplify.**

1)  $\sqrt{500}$

2)  $\sqrt{396}$

3)  $\sqrt{24}$

4)  $\sqrt{2352}$

5)  $\sqrt{845}$

6)  $\sqrt{1573}$

7)  $\sqrt{96}$

8)  $\sqrt{704}$

**Algebra Extension 1: Simplify.**

9)  $\sqrt{18b^5}$

10)  $\sqrt{44n^5}$

11)  $\sqrt{800x^7}$

12)  $\sqrt{80v^3}$

**Solve each equation. Remember to check for extraneous solutions.**

13)  $5 = \sqrt{n+6}$

14)  $8 = \sqrt{n}$

15)  $5 + \sqrt{a} = 7$

16)  $12 = 3\sqrt{m}$

17)  $2 = \sqrt{x}$

18)  $\sqrt{x-4} = 5$