

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per: \_\_\_\_\_

**Simplifying Radical Expressions Using the Multiplication and Division Property**  
**11.2 Practice 2**

**Simplify**

1.  $\sqrt{28}$

2.  $\sqrt{40}$

3.  $\sqrt{72}$

4.  $\sqrt{99}$

5.  $\sqrt{2} \cdot \sqrt{10}$

6.  $\sqrt{5} \cdot \sqrt{60}$

7.  $3\sqrt{5} \cdot \sqrt{5}$

8.  $\sqrt{6} \cdot 4\sqrt{24}$

9.  $2\sqrt{3} \cdot 3\sqrt{15}$

10.  $\sqrt{16b^4}$

11.  $\sqrt{81c^2 d^4}$

12.  $\sqrt{40x^4 y^6}$

13.  $\sqrt{75m^5 n^2}$

14.  $\sqrt{\frac{5}{3}}$

15.  $\sqrt{\frac{1}{6}}$

16.  $\sqrt{\frac{6}{7}} \cdot \sqrt{\frac{1}{3}}$

17.  $\sqrt{\frac{q}{12}}$

18.  $\sqrt{\frac{4h}{5}}$

19.  $\sqrt{\frac{12}{b^2}}$

20.  $\sqrt{\frac{45}{4m^4}}$

**Simplifying Radical Expressions Using the Multiplication and Division Property**  
**11.2 Practice 2**

1.  $\sqrt{24}$

2.  $\sqrt{60}$

3.  $\sqrt{108}$

4.  $\sqrt{8} \cdot \sqrt{6}$

5.  $\sqrt{7} \cdot \sqrt{14}$

6.  $3\sqrt{12} \cdot 5\sqrt{6}$

7.  $4\sqrt{3} \cdot 3\sqrt{18}$

8.  $\sqrt{27su^3}$

9.  $\sqrt{50p^5}$

10.  $\sqrt{108x^6y^4z^5}$

11.  $\sqrt{56m^2n^4o^5}$

12.  $\frac{\sqrt{8}}{\sqrt{6}}$

13.  $\sqrt{\frac{2}{10}}$

14.  $\sqrt{\frac{5}{32}}$

15.  $\sqrt{\frac{3}{4}} \cdot \sqrt{\frac{4}{5}}$

16.  $\sqrt{\frac{1}{7}} \cdot \sqrt{\frac{7}{11}}$

17.  $\frac{\sqrt{3k}}{\sqrt{8}}$

18.  $\sqrt{\frac{18}{x^3}}$

19.  $\sqrt{\frac{4y}{3y^2}}$

20.  $\sqrt{\frac{9ab}{4ab^4}}$