**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_**

**11.2: Simplifying Radical Expressions Using the Multiplication and Division Property**

**Worksheet 645**

**Simplify**

**1.** $\sqrt{28}$  **2.** $\sqrt{40}$ **3.** $\sqrt{72}$ **4.** $\sqrt{99}$

**5.** $\sqrt{2}$ $∙$ $\sqrt{10}$ **6.** $\sqrt{5}$ $∙$ $\sqrt{60} $ **7.** 3$\sqrt{5}$ $∙$ $\sqrt{5}$ **8.** $\sqrt{6} ∙ $4$\sqrt{24}$

**9.** 2$\sqrt{3}$ $∙$ 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.** $\sqrt{\frac{6}{7}}∙\sqrt{\frac{1}{3}}$

**17.** $\sqrt{\frac{q}{12}}$ **18.** $\sqrt{\frac{4h}{5}}$ **19.** $\sqrt{\frac{12}{b^{2}}}$ **20.** $\sqrt{\frac{45}{4m^{4}}}$

**11.2: Simplifying Radical Expressions Using the Multiplication and Division Property**

**Worksheet 646**

**1.** $\sqrt{24}$ **2.** $\sqrt{60}$ **3.** $\sqrt{108}$ **4.** $\sqrt{8}∙\sqrt{6}$

**5.** $\sqrt{7}∙\sqrt{14}$ **6.** $3\sqrt{12}·5\sqrt{6}$ **7.** $4\sqrt{3}·3\sqrt{18}$ **8.** $\sqrt{27su^{3}}$

**9.** $\sqrt{50p^{5}}$ **10.** $\sqrt{108x^{6}y^{4}z^{5}}$ **11.** $\sqrt{56m^{2}n^{4}o^{5}}$ **12.** $\frac{\sqrt{8}}{\sqrt{6}}$

**13.** $\sqrt{\frac{2}{10}}$ **14.** $\sqrt{\frac{5}{32}}$ **15.** $\sqrt{\frac{3}{4}}·\sqrt{\frac{4}{5}}$ **16.** $\sqrt{\frac{1}{7}}·\sqrt{\frac{7}{11}}$

**17.** $\frac{\sqrt{3k}}{\sqrt{8}}$ **18.** $\sqrt{\frac{18}{x^{3}}}$ **19.** $\sqrt{\frac{4y}{3y^{2}}}$ **20.** $\sqrt{\frac{9ab}{4ab^{4}}}$