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

**Worksheet 643**

**Simplify.**

**1.** $\sqrt{28}$ **2.** $\sqrt{68}$ **3.** $\sqrt{60}$ **4.** $\sqrt{75}$

**5.** $\sqrt{162}$ **6.** $\sqrt{3}·\sqrt{6}$ **7.** $\sqrt{2}·\sqrt{5}$ **8.** $\sqrt{5}·\sqrt{10}$

**9.** $\sqrt{4a^{2}}$ **10.** $\sqrt{9x^{4}}$ **11.** $\sqrt{300a^{4}}$ **12.** $\sqrt{128c^{6}}$

**13.** $4\sqrt{10}·3\sqrt{6}$ **14.** $\sqrt{3x^{2}}∙3\sqrt{3x^{4}}$  **15.** $\sqrt{20a^{2}b^{4}}$  **16.** $\sqrt{100x^{3}y}$

**17.** $\sqrt{24a^{4}b^{2}}$ **18.** $\sqrt{81x^{4}y^{2}}$ **19.** $\sqrt{150a^{2}b^{2}c }$ **20.** $\sqrt{72a^{6}b^{3}c^{2} }$

 **21.** $\sqrt{45x^{2}y^{5}z^{8} }$ **22.** $\sqrt{98x^{4}y^{6}z^{2}}$

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

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

**Worksheet 644**

**1.** $\frac{\sqrt{9}}{\sqrt{18}}$ **2.** $\frac{\sqrt{8}}{\sqrt{24}}$

**3.** $\frac{\sqrt{100}}{\sqrt{121}}$ **4.** $\frac{\sqrt{75}}{\sqrt{3}}$

**5.**  $\frac{8\sqrt{2}}{2\sqrt{8}}$ **6.** $\sqrt{\frac{2}{5}}∙\sqrt{\frac{6}{5}}$

**7.** $\sqrt{\frac{3}{4}}∙\sqrt{\frac{5}{2}}$ **8.** $\sqrt{\frac{5}{7}}∙\sqrt{\frac{2}{5}}$

**9.** $\sqrt{\frac{3a^{2}}{10b^{6}}}$ **10.** $\sqrt{\frac{x^{6}}{y^{4}}}$

**11.** $\sqrt{\frac{100a^{4}}{144b^{8}}}$ **12.** $\sqrt{\frac{75b^{3}c^{6}}{a^{2}}}$

**13.** $\sqrt{\frac{5}{3}}$ **14.** $\sqrt{\frac{1}{6}}$