**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_**

**Dividing Monomials WS 461**

**Simplify. Assume that no denominator is equal to zero.**

**1.** $\frac{5^{5}}{5^{2}}$ **2.** $\frac{m^{6}}{m^{4}}$ **3.** $\frac{p^{5}n^{4}}{p^{2}n}$

**4.** $\frac{a^{2}}{a}$ **5.** $\frac{x^{5}y^{3}}{x^{5}y^{2}}$ **6.** $\frac{-2y^{7}}{14y^{5}}$

**7.** $\frac{xy^{6}}{y^{4}x}$ **8.** $\left(\frac{2a^{2}b}{a}\right)^{3}$ **9.** $\left(\frac{4p^{4}q^{4}}{3p^{2}q^{2}}\right)^{3}$

**10.** $\left(\frac{2v^{5}w^{3}}{v^{4}w^{3}}\right)^{4}$ **11.** $\left(\frac{3r^{6}s^{3}}{2r^{5}s}\right)^{4}$ **12.** $\frac{r^{7}s^{7}t^{2}}{s^{3}r^{3}t^{2}}$

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_**

**Dividing Monomials WS 462**

**Simplify. Assume that no denominator is equal to zero.**

**1.** $\frac{2^{2}}{2^{-3}}$ **2.** $\frac{m}{m^{-4}}$ **3.** $\frac{p^{-8}}{p^{3}}$

**4.** $\frac{b^{-4}}{b^{-5}}$ **5.** $\frac{\left(-x^{-1}y\right)^{0}}{4w^{-1}y^{2}}$ **6.** $\frac{\left(a^{2}b^{3}\right)^{2}}{\left(ab\right)^{-2}}$

**7.** $\frac{x^{4}y^{0}}{x^{-2}}$ **8.** $\frac{\left(6a^{-1}b\right)^{2}}{\left(b^{2}\right)^{4}}$ **9.** $\frac{\left(3st\right)^{2}u^{-4}}{s^{-1}t^{2}u^{7}}$

**10.** $\frac{s^{-3}t^{-5}}{\left(s^{2}t^{3}\right)^{-1}}$ **11.** $\left(\frac{4m^{2}n^{2}}{8m^{-1}l}\right)^{0}$ **12.** $\frac{\left(-2mn^{2}\right)^{-3}}{4m^{-6}n^{4}}$