Name: _____ Date: _____ Period: _____

Dividing Monomials 8.2 Practice 1

Simplify. Assume that no denominator is equal to zero.

1. $\frac{5^5}{5^2}$

2. $\frac{m^6}{m^4}$

3. $\frac{p^5n^4}{p^2n}$

4. $\frac{a^2}{a}$

5. $\frac{x^5y^3}{x^5y^2}$

6. $\frac{-2y^7}{14y^5}$

7. $\frac{xy^6}{y^4x}$

8. $\left(\frac{2a^2b}{a}\right)^3$

9. $\left(\frac{4p^4q^4}{3p^2q^2}\right)^3$

10. $\left(\frac{2v^5w^3}{v^4w^3}\right)^4$

11. $\left(\frac{3r^6s^3}{2r^5s}\right)^4$

12. $\frac{r^7s^7t^2}{s^3r^3t^2}$

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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. $\frac{(-x^{-1}y)^0}{4w^{-1}y^2}$

6. $\frac{(a^2b^3)^2}{(ab)^{-2}}$

7. $\frac{x^4y^0}{x^{-2}}$

8. $\frac{(6a^{-1}b)^2}{(b^2)^4}$

9. $\frac{(3st)^2u^{-4}}{s^{-1}t^2u^7}$

10. $\frac{s^{-3}t^{-5}}{(s^2t^3)^{-1}}$

11. $\left(\frac{4m^2n^2}{8m^{-1}l}\right)^0$

12. $\frac{(-2mn^2)^{-3}}{4m^{-6}n^4}$