

# 8-2 Skills Practice

## Dividing Monomials

Simplify. Assume that no denominator is equal to zero.

1.  $\frac{6^5}{6^4}$

2.  $\frac{9^{12}}{9^8}$

3.  $\frac{x^4}{x^2}$

4.  $\frac{r^3s^2}{r^3s^4}$

5.  $\frac{m}{m^3}$

6.  $\frac{9d^7}{3d^6}$

7.  $\frac{12n^5}{36n}$

8.  $\frac{w^4u^3}{w^4u}$

9.  $\frac{a^3b^5}{ab^2}$

10.  $\frac{m^7n^2}{m^3n^2}$

11.  $\frac{-21w^5u^2}{7w^4u^5}$

12.  $\frac{32x^3y^2z^5}{-8xyz^2}$

13.  $\left(\frac{4p^7}{7s^2}\right)^2$

14.  $4^{-4}$

15.  $8^{-2}$

16.  $\left(\frac{5}{3}\right)^{-2}$

17.  $\left(\frac{9}{11}\right)^{-1}$

18.  $\frac{h^3}{h^{-6}}$

19.  $k^0(k^4)(k^{-6})$

20.  $k^{-1}(\ell^{-6})(m^3)$

21.  $\frac{f^{-7}}{f^4}$

22.  $\left(\frac{16p^5q^2}{2p^3q^3}\right)^0$

23.  $\frac{f^{-5}g^4}{h^{-2}}$

24.  $\frac{15x^6y^{-9}}{5xy^{-11}}$

25.  $\frac{-15w^0u^{-1}}{5u^3}$

26.  $\frac{48x^6y^7z^5}{-6xy^5z^6}$