

# Daily Practice

Simplify.

26.  $\left(\frac{2}{3}\right)^4$

27.  $\left(\frac{a^4}{b^2}\right)^3$

28.  $\left(\frac{a^3b^2}{ab^3}\right)^6$

29.  $\left(\frac{3y^2}{x^3y}\right)^5$

30.  $\left(\frac{1}{7}\right)^{-3}$

31.  $\left(\frac{x^2}{y^3}\right)^{-5}$

32.  $\left(\frac{8w^7}{16}\right)^{-1}$

33.  $\left(\frac{1}{4}\right)^{-2} \left(\frac{6x}{7}\right)^{-2}$

Simplify, if possible.

34.  $\frac{x^6}{x^3}$

35.  $\frac{8d^5}{4d^2}$

36.  $\frac{x^2y^3}{a^3b^3}$

37.  $\frac{(3x^3)^2}{(6x^2)^2}$

38.  $\frac{(5x^2)^3}{5x^2}$

39.  $\left(\frac{c^2a^3}{a^7}\right)^2$

40.  $\left(\frac{3a}{a^3 \cdot a^0}\right)^3$

41.  $\left(\frac{-p^4}{-5p^3}\right)^{-2}$

42.  $\left(\frac{b^{-2}}{b^3}\right)^2$

43.  $\left(\frac{10^2}{10^{-6} \cdot 10^5}\right)^{-1}$

44.  $\left(\frac{x^2y^2}{x^2y}\right)^{-3}$

45.  $\frac{(-x^2)^4}{-(x^2)^4}$

Find the missing exponent(s).

50.  $\frac{x^{\square}}{x^4} = x^2$

51.  $\frac{x^7}{x^{\square}} = x^4$

52.  $\left(\frac{a^2}{b^{\square}}\right)^4 = \frac{a^8}{b^{12}}$

53.  $\left(\frac{x^4}{y^{\square}}\right)^{-1} = \frac{y^3}{x^8}$