

**LESSON**  
**7-1**

**Practice B**  
*Integer Exponents*

**Simplify.**

1.  $5^{-3} = \frac{1}{\quad} = \frac{1}{\quad}$

2.  $2^{-6} = \frac{1}{\quad} = \frac{1}{\quad}$

3.  $(-5)^{-2}$  \_\_\_\_\_

4.  $-(4)^{-3}$  \_\_\_\_\_

5.  $-6^0$  \_\_\_\_\_

6.  $(7)^{-2}$  \_\_\_\_\_

**Evaluate each expression for the given value(s) of the variable(s).**

7.  $d^{-3}$  for  $d = -2$

8.  $a^5b^{-6}$  for  $a = 3$  and  $b = 2$

9.  $(b - 4)^{-2}$  for  $b = 1$

10.  $5z^{-x}$  for  $z = -3$  and  $x = 2$

11.  $(5z)^{-x}$  for  $z = -3$  and  $x = 2$

12.  $c^{-3} (16^{-2})$  for  $c = 4$

**Simplify.**

13.  $t^{-4}$

14.  $3r^{-5}$

15.  $\frac{s^{-3}}{t^{-5}}$

16.  $\frac{h^0}{3}$

17.  $\frac{2x^{-3}y^{-2}}{z^4}$

18.  $\frac{4fg^{-5}}{5h^{-3}}$

19.  $\frac{14a^{-4}}{20bc^{-1}}$

20.  $\frac{a^4c^2e^0}{b^{-1}d^{-3}}$

21.  $\frac{-3g^{-2}hk^{-2}}{-6h^0}$

22. A cooking website claims to contain  $10^5$  recipes.  
Evaluate this expression. \_\_\_\_\_

23. A ball bearing has diameter  $2^{-3}$  inches.  
Evaluate this expression. \_\_\_\_\_