

LESSON
7-1**Practice C**
Integer Exponents**Simplify.**

1. 4^{-2} _____

2. 6^0 _____

3. -6^{-2} _____

4. $(-1)^{-5}$ _____

5. $(-3)^{-2}$ _____

6. 5^{-3} _____

7. -7^{-3} _____

8. $(-4)^{-5}$ _____

9. $(-9)^0$ _____

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

10. $x^{-4}y^3$ for $x = 2$ and $y = 3$

11. $5r^{-3}s^{-6}$ for $r = 3$ and $s = 1$

12. $(3 - m)^{-4}$ for $m = 6$

13. $-2a^{-1}b^{-3}$ for $a = 2$ and $b = 3$

Simplify.

16. x^{-3} _____

17. z^0 _____

18. t^{-9} _____

19. $3n^{-2}$ _____

20. $\frac{2}{3}x^{-4}$ _____

21. $-a^{-2}$ _____

22. $10r^{-3}s^4$ _____

23. $\frac{b^3}{c^{-2}d^3}$ _____

24. $\frac{5x^{-2}y^{-3}}{z^0}$ _____

25. $\frac{p^{-9}q^{-4}}{r^2s^{-3}}$ _____

26. $\frac{a^0b^{-2}}{c^{-3}d}$ _____

27. $\frac{g^3h^{-2}}{k^{-1}j^{-5}}$ _____

28. A micrometer is an instrument that can measure the thickness of an object very accurately. One micrometer is accurate to within 10^{-4} inches. Evaluate this expression.

29. An object is being measured by a micrometer. It has a thickness of 6^{-3} inches. Evaluate this expression.
