LESSON 1.1 Practice B
For use with pages 2–7

Evaluate the expression.

1. $y + 12$ when $y = 29$

2. $47 - x$ when $x = 38$

3. $0.8a$ when $a = 7.5$

4. $12.5 + m$ when $m = 7.6$

5. $r(4.6)$ when $r = 8.1$

6. $6.25 \div g$ when $g = 2.5$

7. $\frac{x}{0.9}$ when $x = 54$

8. $\frac{62}{d}$ when $d = 3.1$

9. $\frac{4}{7} \cdot t$ when $t = \frac{7}{8}$

10. $r(8.3)$ when $r = 10.2$

11. $w + \frac{2}{5}$ when $w = \frac{1}{2}$

12. $\frac{n}{2.4}$ when $n = 12$

Write the power in words and as a product.
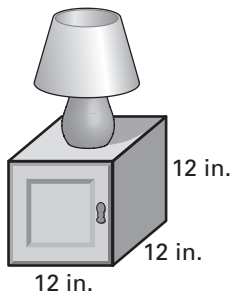
13. 8^7

14. $(0.1)^4$

15. x^5

Evaluate the power.

16. 9^2

17. 2^6

18. $(0.4)^3$

Evaluate the expression.

19. x^2 when $x = \frac{1}{5}$

20. m^4 when $m = 0.6$

21. $2y^3$ when $y = 4$

22. Side Table A side table has interior storage space in the shape of a cube. What is the volume of the storage space if the interior length is 12 inches?

12 in.
12 in.
12 in.

23. Playing Cards There are 52 cards in a standard deck of playing cards. You are combining decks of cards so that you can play a game with a large number of people. The expression $52d$ represents the number of cards in d decks. If you combine 4 decks of cards, how many cards will you have altogether?

24. Sales Tax An item costs c dollars and 6% sales tax is charged. The total cost including sales tax is given by the expression $1.06c$. You are buying a skateboard that costs $75. What is the cost of the skateboard including sales tax?

25. Flower Arranging You are creating a flower arrangement for a friend. The total cost (in dollars) for one vase and f flowers is given by the expression $8 + 2.5f$. How much will it cost to make an arrangement with 8 flowers?