Name _____ Date _____

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. $\dfrac{x}{0.9}$ when $x = 54$ **8.** $\dfrac{62}{d}$ when $d = 3.1$ **9.** $\dfrac{4}{7} \cdot t$ when $t = \dfrac{7}{8}$

10. $r(8.3)$ when $r = 10.2$ **11.** $w + \dfrac{2}{5}$ when $w = \dfrac{1}{2}$ **12.** $\dfrac{n}{2.4}$ when $n = 12$

Write the power in words and as a product.
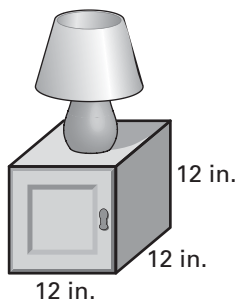
13. 8^7 **14.** $(0.1)^4$ **15.** x^5

Evaluate the power.

16. 9^2 **17.** 2^6 **18.** $(0.4)^3$

Evaluate the expression.

19. x^2 when $x = \dfrac{1}{5}$ **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?