

Name _____

Date _____

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

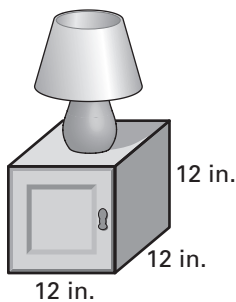
Evaluate the power.

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

LESSON
1.1**Practice B** *continued*
For use with pages 2–7

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?



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?