

EXERCISES

 For more practice, see *Extra Practice*.

A Practice by Example

Find the value of each expression.

Example 1
(page 49)

1. $6 - 2 + 4 \times 2$

2. $33 - (14 + 6)$

3. $6 \times (2 \times 5)$

4. $4 \times 3 + 20 \div 5$

5. $400 \div (44 - 24)$

6. $7 \times (4 + 6) \times 3$


7. $45 \div 4.5 + 6.2 \times 3$

8. $26 + 4.6 - 4 \times 2.4$

9. $14 - (7.6 + 5) \div 2$

10. $13 + 5.1 \times 12 - 4.2$

Example 2
(page 49)

-  **11. Marbles** You buy 1 red rainbow marble at \$.45 each, 3 bumblebee marbles at \$.95 each, and 2 tricolored rainbows at \$.65 each.

- a. Write an expression for the total cost of the marbles you buy.
b. Find the total cost.

-  **12. Jobs** You are paid \$4.10 per hour to rake leaves. Your brother is paid \$3.30 per hour.

- a. Write an expression for how much the two of you will earn together if you work 3 hours and your brother works 2 hours.
b. Find the total amount earned.

B Apply Your Skills

Which operation would you perform first in each expression?

13. $30 - 10 \times 3 \div 5$

14. $63 \div 7 \times (5 - 2)$

15. $12 - 9 \div 3 - 2$

Find the value of each expression.

16. $(63 - 48) \times 10$

17. $18 \div 6 - (5 - 4)$

18. $40 \times 0.1 - (9 - 6)$

19. $(0.1 + 0.9) \times 1 - 1$

Use $<$, $=$, or $>$ to complete each statement.

20. $(3 + 6) \times 4$ \blacksquare $3 + 6 \times 4$

21. $6 \times (8 - 2)$ \blacksquare $(8 - 2) \times 6$

22. $2 \times (15 - 3.5)$ \blacksquare $2 \times 15 - 3.5$

23. $62 - 37.3 + 8$ \blacksquare $62 - (37.3 + 8)$

24. $0.8 \div 2 \times 2$ \blacksquare $0.8 \div (2 \times 2)$

25. $3.5 \times 10 \div 5$ \blacksquare $3.5 \times (10 \div 5)$

26. **Writing in Math** Explain the steps you would use to find the value of the expression $8 \div 4 \times 6 + (7 - 5)$.



Test Prep

Multiple Choice

40. Find the value of the expression $36 \div 3 - 1 \times 7$.
A. 5 B. 9 C. 77 D. 126
41. Find the value of the expression $(\$1.25 \times 3) + (\$3.50 \div 5)$.
F. \$3.05 G. \$4.45 H. \$4.50 I. \$21.25
42. Which expression has a value of 0.40?
A. $(0.2 + 0.2) \times (1 - 1)$ B. $2 \times 0.1 + 0.1$
C. $0.1 + (0.9 \div 3)$ D. $1.4 - 1 \times 0.7$
43. At an amusement park, each person pays \$5 to enter plus \$2 for each ride. While at the park, Jamie goes on 9 rides. Which expression represents the total amount Jamie spends?
F. $\$5 + 9 \times \2 G. $(\$5 + 9) \times \2
H. $(\$5 \times 9) + \2 I. $\$5 \times 9 \times \2



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Mixed Review

Lesson 1-8

Use mental math to find each product or quotient.

44. $1,000 \times 0.035$ 45. $4(2.8 \times 25)$ 46. $2 \cdot 5.4 \cdot 5$
47. $0.462 \div 100$ 48. $1.39 \div 1,000$ 49. $25.6 \div 10$