Name _____ Date _____

LESSON 1.2

Practice C

For use with pages 8–13

Evaluate the expression.

1. $32 \div 8 \cdot 5$

2. $14 + 72 \div 9$

3. $6 \cdot 9 - 33 \div 11$

4. $22 + 3 \cdot 5 - 16$

5. $(4^3 + 6^2) \div 0.5$

6. $10 + 5^3 \div 25 - 7$

7. $3^4 - 8 \div \frac{8}{3} + 6$

8. $5[(4 + 9) - 3^2] \div 2$

9. $14 \div \left[\frac{3}{4}(17 - 9)^2\right]$

10. $0.2 + 0.6(3^2 + 4^2)$

11. $3[7(14 - 2^3) + 5] - 18$

12. $1.75 + 2[17 - (5 - 3)^2]$

Evaluate the expression.

13. $6(m - 4)$ when $m = 19$

14. $9y^3 + 2$ when $y = 4$

15. $10x - 3x^2$ when $x = 2$

16. $7x^2 + 2x$ when $x = \frac{1}{2}$

17. $\frac{6(m - 1)}{2m + 3}$ when $m = 6$

18. $\frac{5t^2 + 2}{t} - 3$ when $t = 2$

19. $5x^2 - 3y^2$ when $x = 8$ and $y = 4$

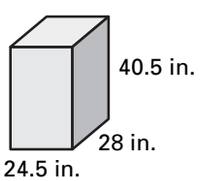
20. $\frac{5m + 4}{3n}$ when $m = 4$ and $n = 10$

21. Was the expression evaluated correctly using the order of operations? If not, find and correct the error.

$$\frac{2}{3}(9^2 - 2^3) + 8 = 2(3^2 - 2^3) + 8 = 2(9 - 8) + 8 = 2(1) + 8 = 10$$

22. **Picture Frames** You are purchasing wood to make 5 picture frames that are all the same size. The expression $5(2x + 2y)$ represents the total amount of wood you need to make the frames where x is the width of a frame (in inches) and y is the length of a frame (in inches). Find the amount of wood you need to make the frames if each frame is 8.25 inches wide and 10.5 inches long.

23. **Postal Service** The United States Postal Service requires that the dimensions of a package mailed by parcel post using regular rates meet certain standards. One standard is that the expression $h + (2\ell + 2w)$, where h is the package's height, ℓ is the package's length, and w is the package's width, cannot be greater than 108 inches. Does the package below meet this standard?



24. **Golfing** One way a golfer can evaluate his or her playing is by using a number called a handicap. The first step to calculating your handicap is to calculate your handicap differential. The handicap differential is given by the expression $[(s - c) \cdot 113] \div \ell$, where s is your game score, c is the course rating of the course you played, and ℓ is the slope rating of the course. You played a course with a 72.1 course rating and a 129 slope rating. Your score was 90. What is the handicap differential for the game? Round your answer to the nearest tenth.