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LESSON	<b>Practice</b>	В
1.2	For use with pages 8-	-13

## **Evaluate the expression.**

<b>1.</b> 16 ÷ 8 • 5	<b>2.</b> $7^2 - 24 \div 3$	<b>3.</b> $5 + 1.2 \div 0.3$
<b>4.</b> $18 \div 6 + 4 \cdot 3$	<b>5.</b> $13 - 15 \div 5 + 9$	<b>6.</b> $\frac{2}{3} \cdot 3^2 - 5$
<b>7.</b> $8(6-2)+4$	<b>8.</b> 28 - 3(4 + 5)	<b>9.</b> $1.2 \cdot 5 - 6 \div 3$
<b>10.</b> (11 + 15) ÷ 13	<b>11.</b> $35 - 3^2 \cdot 2$	<b>12.</b> $\frac{4}{5}(3 \cdot 20) - 17$

## **Evaluate the expression.**

13.	$3x^4 - 5$ when $x = 5$	14.	$8m^3 \div 6$ when $m = 3$	15.	$200 - 3y^2$ when $y = 8$
16.	$5c^2 - 2c$ when $c = 9$	17.	$3 \cdot 18t^2$ when $t = \frac{1}{3}$	18.	$\frac{42}{n} + n \text{ when } n = 6$
19.	7(x + 5) when $x = 10$	20.	$\frac{5a}{a-6}$ when $a = 8$	21.	$\frac{4d^2}{d+1} \text{ when } d = 3$

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

$$80 - \frac{1}{3}(15)^2 = 80 - 5^2 = 80 - 25 = 55$$

- **23.** Tournament During a bowling tournament, you bowled three games with scores of 110, 130, and 129, respectively. Your average bowling score is given by  $\frac{110 + 130 + 129}{3}$ . What is your average score?
- **24.** Painting Three weeks ago, an art supply store started selling a paint kit for 75% of the original price. Now the kit is 15% off of the sale price. The expression 0.75x 0.15(0.75x) represents the current price of the paint kit where x is the kit's original price (in dollars). Find the current price of the kit if it originally cost \$48.
- **25.** Crown Molding You are decorating the perimeter of the ceiling of your living room with crown molding. The expression 2x + 2y represents the total amount of molding you need where x is the width of the room (in feet) and y is the length of the room (in feet). Find the total amount of wood you need if the room is 11 feet wide and 10.5 feet long.
- **26.** Core Sample Before a structure is built on a plot of land, it is sometimes necessary to test the surface beneath the plot of land to determine its integrity. So, it may be necessary to take a core sample which is cylindrical in shape. Find the volume of the core sample shown by using the expression  $\pi r^2 h$  where *r* is the radius (in inches) and *h* is the height (in inches) of the cylinder. Use 3.14 for  $\pi$ .



LESSON 1.2