## LIsson Practice B <br> 1.2 For use with pages 8-13

## Evaluate the expression.

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

## Evaluate the expression.

13. $3 x^{4}-5$ when $x=5$
14. $8 m^{3} \div 6$ when $m=3$
15. $200-3 y^{2}$ when $y=8$
16. $5 c^{2}-2 c$ when $c=9$
17. $3 \cdot 18 t^{2}$ when $t=\frac{1}{3}$
18. $\frac{42}{n}+n$ when $n=6$
19. $7(x+5)$ when $x=10$
20. $\frac{5 a}{a-6}$ when $a=8$
21. $\frac{4 d^{2}}{d+1}$ 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 $0.75 x-0.15(0.75 x)$ 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 $2 x+2 y$ 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 $\pi$.

## Algebra 1



