

4. 15 – *b*

Evaluate the expression when $a = 6$ and $b = 8$.				
1. 4 + a	2. $b + 1$	3. <i>a</i> – 6		
Write the phrase	as an expression.			
5. A number <i>y</i>	6. Twice a number <i>z</i>			
7. 25 more tha	8. 40 divided by 5			
Simplify the exp	ression. Explain each	step.		
9. 3.1 + (8.6 +	<i>m</i>)	10. (10 • <i>n</i>) • 7		
11. 3(15 <i>w</i>)		12. $40 + (x + 12)$		

Use the Distributive Property to simplify the expression.

13. $4(x+8)$	14.	12(y-5)
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Use a formula to find the area of the figure.



- **17. SOCCER GAME** Playing time is added at the end of a soccer game to make up for stoppages. An expression for the length of a 90-minute soccer game with *x* minutes of stoppage time is 90 + x. How long is a game with 4 minutes of stoppage time?
- **18. GEOMETRY** The expression $15 \cdot x \cdot 6$ represents the volume of a rectangular prism with a length of 15, a width of *x*, and a height of 6. Simplify the volume expression.
- **19. VERTICAL JUMP** You can reach 71 inches high while standing. An expression for your vertical jump is h 71, where *h* is the height you reach with a jump. What is your vertical jump when you reach 79 inches?



20. PARTY FAVORS You make party favors for an event. You tie 9 inches of ribbon around each party favor. Write an expression for the amount of ribbon you need for *n* party favors. The ribbon costs \$3 for each yard. Write an expression for the total cost of the ribbon.