Evaluate the expression when a = 6 and b = 8.

1.
$$4 + a$$

2.
$$b + 1$$

4.
$$15 - b$$

Write the phrase as an expression.

5. A number *y* decreased by 14

7. 25 more than 50

6. Twice a number z

8. 40 divided by 5

Simplify the expression. Explain each step.

9.
$$3.1 + (8.6 + m)$$

12.
$$40 + (x + 12)$$

Use the Distributive Property to simplify the expression.

13.
$$4(x + 8)$$

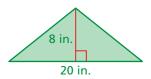
14.
$$12(y-5)$$

Use a formula to find the area of the figure.

15.



16.



- **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.