

# 3 Chapter Test

6th grade  
Green Book

Check It Out  
Test Practice  
BigIdeasMath.com

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

1.  $4 + a$

2.  $a - 6$

3.  $ab$

Write the phrase as an expression.

4. twice a number  $x$

5. 25 more than 50

6. 40 divided by 5

Simplify the expression.

7.  $3.1 + (8.6 + m)$

8.  $(10 \cdot n) \cdot 7$

9.  $3(15w)$

Use the Distributive Property to simplify the expression.

10.  $4(x + 8)$

11.  $12(y - 5)$

Simplify the expression.

12.  $4(q + 2) - 6$

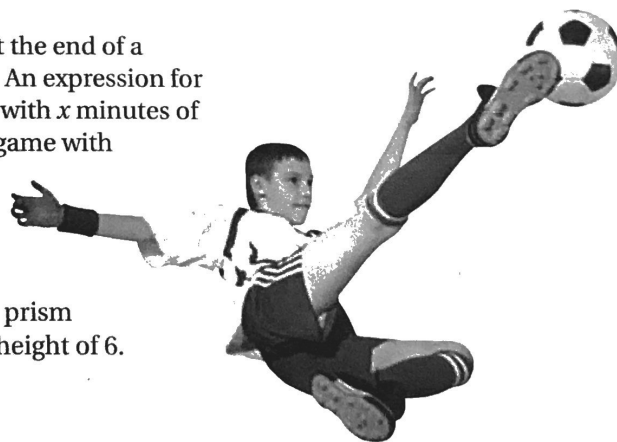
13.  $3(2 + 5r) + 11$

14.  $s + 3s + 4s$

15.  $4t - 2 - 2t + 7$

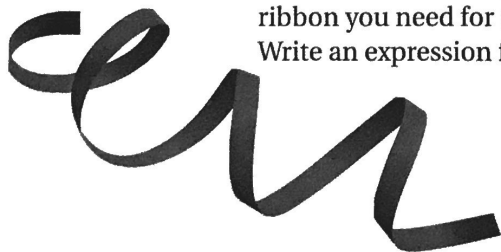
\* Copy the  
problem and  
solve in  
your math  
spiral.

20. **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?



21. **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 expression.

22. **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.



# 7 Chapter Test

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Write the word sentence as an equation.

1. 7 times a number  $s$  is 84.

2. 13 is one-third of a number  $m$ .

Solve the equation. Check your solution.

3.  $15 = 7 + b$

4.  $v - 6 = 16$

5.  $5x = 70$

6.  $3b = 45$

7.  $\frac{6m}{7} = 30$

8.  $\frac{8k}{3} = 32$

Tell whether the ordered pair is a solution of the equation.

9.  $y = 9x$ ; (3, 27)

10.  $y = 4x + 2$ ; (8, 36)

19. **SCHOOL DANCE** Each ticket to a school dance is \$4. The total amount collected in ticket sales is \$332. Write and solve an equation to find the number of students attending the dance.

20. **T-SHIRTS** A soccer team will sell T-shirts for a fundraiser. The company that makes the T-shirts charges \$10 per shirt plus a \$20 shipping fee per order.

- a. Write an equation in two variables that represents the total cost of ordering the shirts.

