

LESSON

10-2

Evaluating Expressions**Practice and Problem Solving: A/B****Evaluate each expression for the given value(s) of the variable(s).**

1. $a - 4$ when $a = 16$

2. $2b + 9$ when $b = 3$

3. $c \div 2$ when $c = 26$

4. $5(9 + d) - 6$ when $d = 3$

5. $g^2 + 23$ when $g = 6$

6. $3h - j$ when $h = 8$ and $j = 11$

7. $(n - 2) \cdot m$ when $n = 5$ and $m = 9$

8. $r(s^2)(t)$ when $r = 2$, $s = 3$, and $t = 5$

Use the given values to complete each table.

9.

p	$2(13 - p)$
2	
3	
4	

10.

v	w	$3v + w$
4	2	
6	3	
8	4	

11.

x	y	$x^2 + y$
2	1	
6	2	
8	4	

Solve.

12. The sales tax in one town is 8%. So, the total cost of an item can be written as $c + 0.08c$. What is the total cost of an item that sells for \$12?

13. To change knots per hour to miles per hour, use the expression $1.15k$, where k is the speed in knots per hour. A plane is flying at 300 knots per hour. How fast is that plane flying in miles per hour?

14. Lurinda ordered some boxes of greeting cards online. The cost of the cards is $\$6.50n + \3 where n is the number of boxes ordered and \$3 is the shipping and handling charge. How much will Lurinda pay if she orders 8 boxes of cards?