## Evaluate the following.

1. 
$$8 + 2x$$
 when  $x = 4$ 

2. 
$$4(2x+3)$$
 when  $x=-2$ 

3. 
$$x^2 - 3$$
 when  $x = 5$ 

4. 
$$5 + (n-2)$$
 when  $n = 4$ 

5. 
$$3a + 2b - 1$$
 when  $a = 3$  and  $b = -2$ 

6. 
$$-2(3+x) + 3y$$
 when  $x = 4$  and  $y = 2$ 

7. 
$$4h + 5 - 2h$$
 when  $h = 6$ 

8. 
$$3w + (w + g)$$
 when  $w = 3$  and  $g = -2$ 

and 
$$g = -2$$

$$9 + 1$$

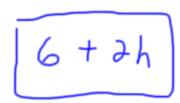
$$10$$

9. 
$$\frac{2n+4}{n}$$
 when  $n=4$ 

$$\frac{2(4)+4}{4} = \frac{8+4}{4} = \frac{12}{4}$$

## Write an algebraic expression for each situation. Evaluate the expression for the given values.

10. Bob has 6 pies. He bakes 2 pies every hour. How many pies does he have after h hours?

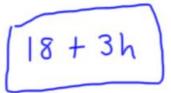


a. How many pies will he have in 4 hours?

b. How many pies will he have in 5 hours?

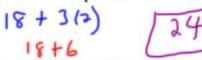
c. How many pies will he have in 10 hours?

11. The temperature at noon is 18°. The temperature raises 3 degrees every hour. What is the temperature after *h* hours?



a. What is the temperature after 1 hours?

b. What is the temperature after 2 hours?



c. What is the temperature after 3.5 hours?

12. Museum tickets for adults cost \$5. Tickets for children cost \$3. What is the total cost if you buy *a* adult tickets and *c* children tickets?



a. How much would you spend if you buy 3 adult tickets and 4 children tickets?

b. How much would you spend if you buy 4 adult tickets and 5 children tickets?

## **Multiple Choice**

13. Which value of x makes 3x + 4 = 16 a true statement?

(A) 
$$x = 3$$

(B) 
$$x = 4$$

(C) 
$$x = 5$$

(D) 
$$x = 6$$

14. Which value of y makes 2(y - 5) = 8 a true statement?

(A) 
$$y = 7$$

(B) 
$$y = 8$$

(C) 
$$y = 9$$

(D) v = 10

- 15. Which value of x makes −7 = 2x + 3 a true statement?

(A) 
$$x = -2$$

(B) 
$$x = -3$$

(C) 
$$x = -4$$

(D) 
$$x = -5$$

16. Which value of *n* makes -3n - 4 = -19 a true statement?

$$(A) \quad n = 5$$

(B) 
$$n = 6$$

(C) 
$$n = -5$$

(D) 
$$n = -6$$