### NAME:

# Review

DATE:

Simplify the following numerical expressions.

1. 
$$9 - 3(5 + 1)$$

2. 
$$4^2 + 6(2) - 1$$

3. 
$$\frac{3-17}{3^2-2} = \frac{-14}{9-2} = \frac{-14}{7}$$

Simplify the following algebraic expressions,

4. 
$$9x - 5x + 7$$

$$4x+7$$

5. 
$$4(3x - 5)$$

6. 
$$3t + 2(3t - 5)$$

7. 
$$9h + 8 + 3h - 2$$

8. 
$$-3(3p-5)-5$$

9. 
$$6-2(3n+5)$$

Evaluate the following expressions.

10. 
$$2x - 5$$
 when  $x = -4$ 

11. 
$$5a + 2b - 1$$
 when  $a = 3$ 

and 
$$b = -2$$

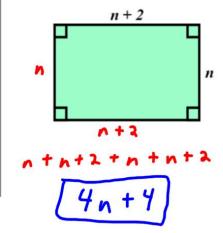
12. 
$$4(2n+3) + n$$
 when  $n = 5$ 

#### Write an expression to model the following.

13. The sum of twice number and six.

14. Bob has *h* amount of hot wheels. Sara has 15 more hot wheels than Bob. How many hot wheels does Sara have?

15. What is the perimeter?



#### Write an expression to model the following. Then evaluate.

- 16. The product of a number *n* and three.
  - a. Write an expression.

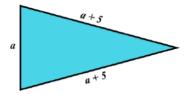
3n

b. Evaluate when n = -4

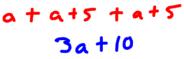
- 17. Bob has 25 dollars saved up. He makes 10 dollars per hour babysitting.
- Write an expression to show Bob's money after work h hours.

b. How much money will Bob after 8 hours of work?

18. Given the triangle below.



a. Write an expression to show the perimeter of the triangle.



b. Find the perimeter if a = 5

## **Multiple Choice**

19. Which value of x makes 3x - 5 = 10 a true statement?

(A) 
$$x = 3$$

(B) 
$$x = 4$$

$$(C) x = 5$$

(D) 
$$x = 6$$

20. Which value of y makes 8 - 3y = -22 a true statement?

(A) 
$$y = 7$$

$$= 70$$
 (B)  $y = 8$ 

(C) 
$$y = 9$$

(D) 
$$y = 10$$