Name: _____ Date: _____ Period: _____

Symbols at School Assignment

Evaluate the following expressions for $a = -3$, $b = 2$, $c = 5$, **and** $d = -4$.

1.   2a + 3b   **2.**   4c + d

3.   5ac – 2b   **4.** $\dfrac{2a}{c+d}$

5. $\dfrac{3b}{d}$ **6.** $\dfrac{a-4b}{3c+2d}$

The equation c = 2000 + 3r represents the cost in dollars (c) of producing a given number of remote controls (r).

7.   What is the cost of producing 1000 remote controls?

8.   What is the cost of producing 2000 remote controls?

9.   What is the cost of producing 2500 remote controls?

Solve the following equations and make sure to show your work.

10.   3x = 15   **11.**   x – 10 = 2

12.   -16 = x + 11   **13.**   6 – x = 10

B represents the number of minutes biking	V_B is the average speed biking
S represents the number of minutes swimming	V_S is the average speed swimming
R represents the number of minutes running	V_R is the average speed running
T represents the total minutes for the race	

Give the meaning for each expression. If there is no meaning explain why.

14. $S + B + R$

15. $V_S S$

16. SBR

17. $V_S + V_B + V_R$

18. T-R

19. R- V_B

20. Write an expression for the total distance in the biking portion of the race.

21. Write an expression without using B to represent the number of minutes on the bike.