AFL 2 ~ Moving Straight Ahead (Inv. 1-3) - PLUS

Learning Target 1: (_____/8 _____%)

I am able to represent real-world problems using: variables, symbols, expressions, one- or two-step equations.

1.) The expenses *E* and income *I* for making and selling T-Shirts with a school logo are given by the equations E = 535 + 4.50n and I = 12n, where *n* is the number of T-Shirts.
(Profit = Income – Expenses)

a.) Suppose the income is $1200. Is there a profit or a loss? Explain. (2 pts.)

b.) How many T-Shirts must be bought and sold to break even? (2 pts.)

c.) What is the constant rate of change in each equation, and what does it represent? (2 pts.)

d.) What is the y-intercept (or 0-term) in each equation, and what does it represent? (2 pts.)

Learning Target 2: (_____/6 _____%)

I am able to translate between linear tables, graphs, and equations.

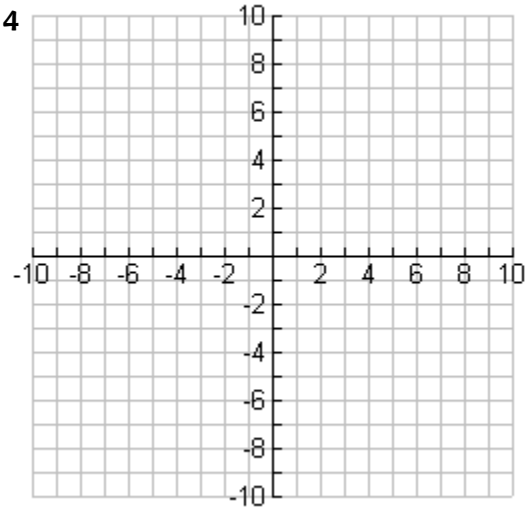
2.) Complete the table using the given equation.
y = -2x + 5

x	1	2	3	4
y				

3.) Write an equation for the following table.

x	1	3	6	9
y	1	9	21	33

4.) Make a graph using the given equation.
y = 2x - 4



Learning Target 3: (_____/5 _____%)

I am able to solve one- and two-step linear equations.

5.) Solve each equation. a.) -2x + 6 = 26 b) 2x + 5 = 5x - 9

6.) y = -x + 4 Find y if x = 3

7.) Is (-2, 0) a solution to the equation y = 8x – 2? Explain. (2 pts.)