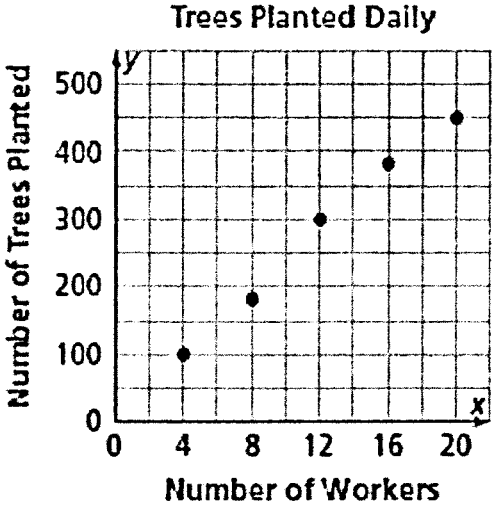
TWMM – AFL 1

Learning Target 1: (_____ /6 pts. _____%)

I am able to determine the line of best fit with a scatterplot and apply linear concepts.

The Grant Center for Outdoor Education gives student groups experience in studying nature and helping to restore the environment for fish, birds, and animals.

1. The number of seeding trees that can be planted in one day depends on the number of students in the work group. Data from several different work groups are shown in the next graph.



a. Draw a line that estimates the pattern in (*workers, trees*) data.

b. Write an equation for your graph model relating trees planted to number of workers.

c. Use your linear model to estimate how many trees will be planted by a work crew of 14. Show how you find your answer.

d. Use your linear model to estimate how many workers will be required to plant 270 trees. Show how you find your answer.

e. What is the slope of your linear model? What does that slope tell about the relationship between the variables?

Learning Target 2: (_____/10 pts. _____%)

I am able to translate between linear tables, graphs, and equations in a variety of situations.

Write an equation for the table and graph.

1.)

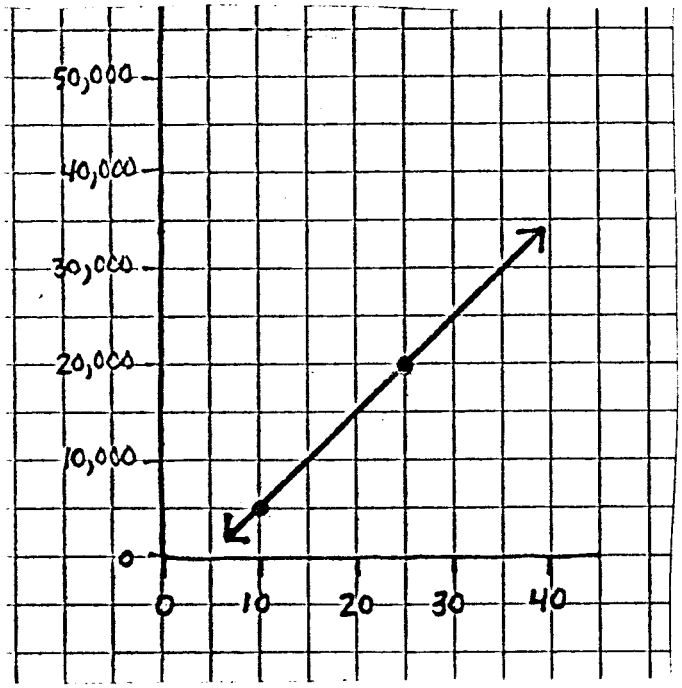
X	Y
10	-275
25	-200
40	-125
55	-50

Slope: _____

y-intercept:_____

Equation:_____

2.)



slope = _____

y-intercept = _____

Equation = _____

3.) Write an equation with a slope = –40 and passes through the point (–20 , 75).

4.) Write an equation for a line that passes through the points (35, 630) and (50, 885).