

Name:

Date:

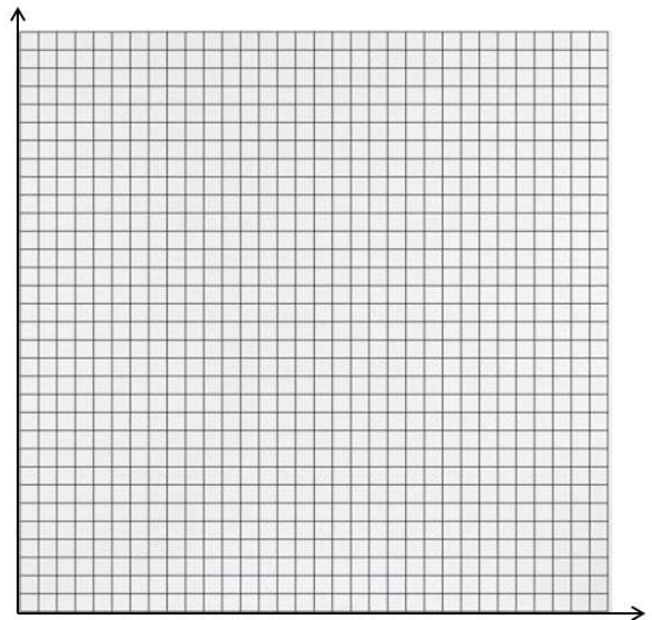
Hour:

Algebra 1  
WS PC #2 Review – Unit 3

1. A company's cost are \$400 a week and profit \$20 per item sold. Write a linear equation to represent the total profit per week if the companies sold  $x$  items.
2. Draw a scatter plot for the age and tail length of some tadpoles.

<b>Ages (days)</b>	5	2	9	7	12	10	3	6
<b>Tail (mm)</b>	14	15	3	8	1	3	12	9

- a. Draw a line of best fit.
- b. Using your GDC, write the equation of your line of best fit.
- c. Describe the correlation.
- d. Using your GDC, determine your correlation coefficient.
- e. Interpret the point (8, 10) for this situation.
- f. What does the slope of your line of best fit mean in this problem?
- g. What does the y-intercept of your line of best fit mean in this problem?

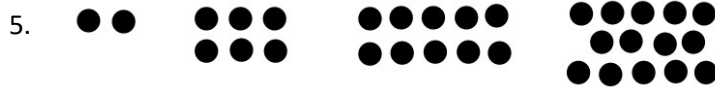


Write a function to represent each table, pattern or sequence.

3.

<b>x</b>	2	4	6	8	10
<b>f(x)</b>	-4	-1	2	5	8

4.  $a_1 = 7, d = -2$



6. For each of your equations from #3 – 5, find the 37<sup>th</sup> term.

a. Equation #3:

b. Equation #4:

c. Equation #5: