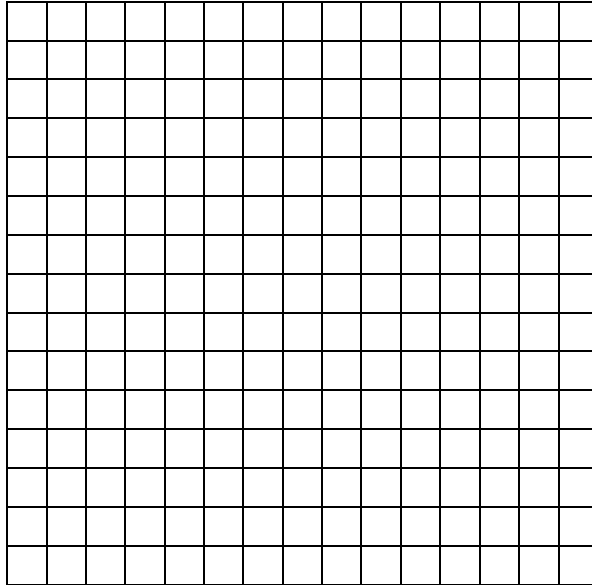


Algebra 2
Section 2.5 wksht #1

Name _____

1. Make a scatter plot of the following data. Be sure to label your axes!

Hours of studying, x	0	2	10	5	4	8	6	9
Grade on final exam, y	52	68	95	82	70	92	86	96



1. Draw a line of best fit using a straight edge.
2. Choose two ordered pairs that best represent your data.
(____, _____) and (____, _____)
3. Write the equation of the line.

4. If you study for 7 hours, what would be your expected grade on your final exam?
5. Using your calculator, write the equation for the line of regression for this information.
6. How close was your equation to the calculator's equation?

In 2 – 4, use a graphing calculator to find an equation for the line of regression.

2. The table shows the amount of ice cream Sunee’s Homemade Ice Creams sold for eight months. Let $x = 1$ represent January.

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
Gallons sold	37	44	72	80	105	110	119	131	?

Equation of Line of regression: _____

Use your equation to predict the missing value: _____

3. The table shows the total revenue of all of Central High School’s plays in recent school years. Let x represent the number of years since 2000.

School Year	2005	2006	2007	2008	2009	2016
Revenue (\$)	603	666	643	721	771	?

Equation of Line of regression: _____

Use your equation to predict the missing value: _____

4. The table shows the number of employees of a small company. Let x represent the number of years since 2000.

Year	Number of Employees
2002	4
2003	7
2004	11
2005	14
2006	20
2007	23

Equation of Line of regression: _____

Use your equation to predict the number of employees in 2011: _____