AGS 1   Name: _____ Period: _____ Date: _____

Assignment 4.7

1.

Weeks since school started	Money in savings (thousands)
1	200
3	175
4	162
7	120
10	87
13	57
20	5

200 ↑

Money

Weeks   **20**
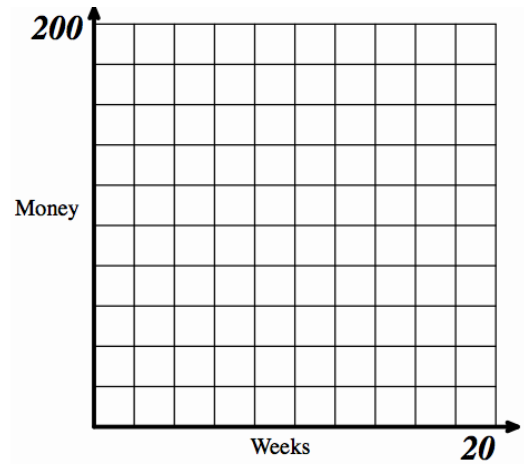
a.   Use the data in the table above to make a scatter plot on the given graph.

b.   Is the correlation of the graph positive or negative? How can you tell?

c.   What is the strength of the correlation coefficient? How can you tell?

d.   Find the average point and use it to draw a line of best fit.

       $(\bar{x}, \bar{y})$:

e.   Find an equation for the line of best fit that you drew.

f.   Using the equation you found in (e), predict the amount of money the school will have in 17 weeks.

2. Below is the data for women with a bachelor's degree of more from 2000-2011.

Year	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000
Income for Women ($)	41338	42409	42746	42620	44161	44007	42690	42539	42954	42871	42992	43293

Find the average point of the data.

Refresh your memory.

Simplify

3. $8 + (2 - 9) - 6$

4. $\frac{43 - 1}{4 + 2} + 10$

5. $2 + 4(3 + 8) + 1$

Solve for the given letter

6. $r = d \cdot t$, solve for d

7. $ab + c = d$, solve for b

8. $V = \frac{1}{3} h \pi r^2$, solve for h.