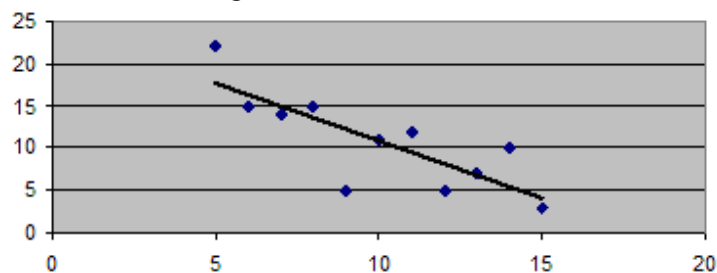


Name: _____

Date: _____

QUIZ – CORRELATION

1. (5%) In case of a perfect positive correlation the value of r is _____
2. (5%) In case of a perfect negative correlation the value of r is _____
3. (5%) In case of a no correlation the value of r is _____
4. (5%) Finally r is between _____ and _____
5. (10%) Given the following correlation:



Estimate the value of r : _____

6. (70%) The relation between the amount of time spend a day using cell phone and the amount of time reading was studies and the following results obtained:

Time Using Cell Phone (min)	0	5	10	15	20	25	30	35	40	45	50	55
Time reading (min)	38	37	35	32	33	30	24	25	21	15	12	5

- a. (15%) Find the correlation coefficient. $r =$ _____
- b. (15%) What kind of correlation is this: _____
- c. (15%) Find the line of best fit: _____
- d. (15%) Estimate the time reading of a student who uses the cell phone 22 min a day.
- e. (10%) Estimate the time reading of a student who uses the cell phone 100 min a day. Explain.