

GLO	/2	/2
HW	/12	/4

Name: _____

Date: _____ Pd: _____

Scatter Plot Line of Best Fit- HOMEWORK

Part I. GRAPH the points in the table & LABEL the axes. Then, draw your LINE OF BEST FIT. Finally, identify the resulting CORRELATION and EXPLAIN what it means based on the scenario.

Part II: Determine the EQUATION (in slope-intercept form) of your line of best fit

Part III: Use your equation to answer the follow up question. Be sure your answer is in a complete sentence.

1)

Shots (x)	Points (y)
4	4
2	1
6	4
6	5
8	5
7	6
11	9

Correlation (CIRCLE one): Positive Negative None

Explanation: _____

Equation:
 a) Pick 2 Points on you line: _____

b) Calculate slope (m): _____

c) Solve for y-intercept (b): _____

Equation (y=mx+b): _____

Follow Up Question: How many points would they score after 30 attempted shots?

2)

Hours (x)	Battery % (y)
2	45
3	42
5	36
6	30
8	24
9	13
10	5

Correlation (CIRCLE one): Positive Negative None

Explanation: _____

Equation:
 a) Pick 2 Points on you line: _____

b) Calculate slope (m): _____

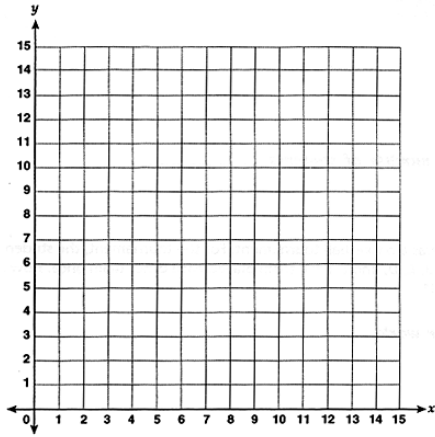
c) Solve for y-intercept (b): _____

Equation (y=mx+b): _____

Follow Up Question: About how much battery life did he have at the beginning (at 0 hours)?

3)

Min (x)	Miles driven (y)
2	1
4	5
5	8
7	9.5
10	11
13	14.5
14	16



Correlation

(CIRCLE one): Positive Negative None

Explanation: _____

Equation:

a) Pick 2 Points on you line: _____

b) Calculate slope (m): _____

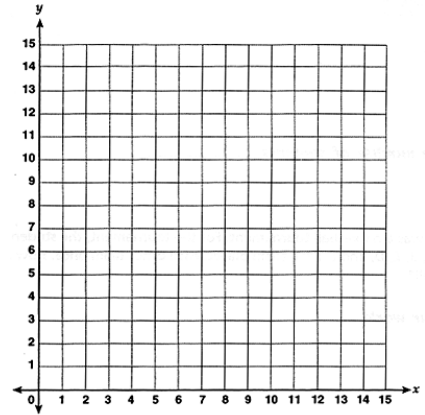
c) Solve for y-intercept (b): _____

Equation (y=mx+b): _____

Follow Up Question: How many miles will they have driven after 20 minutes?

4)

Age (x)	Foot size (y)
4	5
6	4
9	7
8	10
6	5
11	6
14	5



Correlation

(CIRCLE one): Positive Negative None

Explanation: _____

Equation:

a) Pick 2 Points on you line: _____

b) Calculate slope (m): _____

c) Solve for y-intercept (b): _____

Equation (y=mx+b): _____

Follow Up Question: How large will someone's foot size be at age 18?