

MPM1DI: UNIT 4 – Graphing Relations

- 1. Which graphs seem to have a pattern? Explain.
- 2. For graphs A, B, C draw your Line of Best Fit considering that your line must:

[1] Go through as many points as possible. [2] Have the same number of points above and below

3. Plot the given data, and then draw a Line of Best Fit using your ruler and estimating where it should lie.

Minutes	Mark on						
Spent	Exam						
Studying							
120	50						
340	82						
170	49						
250	70						
275	72						
200	65						
325	82						
90	40						
470	98						
320	90						
100	44						



Name: \_\_\_\_\_

a. What is the equation of the line of best fit to 2 decimal places\_\_\_\_\_

b. What is the value of r? \_\_\_\_\_\_ c. What is the correlation? \_\_\_\_\_\_

d. What does this value tell you about the correlation between one's mark on an exam and their studying time?

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4. For the following data, determine and graph the Line of Best Fit and then answer the question below.

Hauna of	Hours of								
Hours of	Hours of								
TV per	Reading								
week	per week								
6	12								
20	6								
30	2								
12	9.5								
15	8.5								
18	4.5								
21	5.5								
26	3								
25	3								
10	8								
9	8.5								
15	5								
13	7								
24	4								
23	4								
21	5.5								

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a. About how many hours per week to people read if they watch 22 hours of TV? \_\_\_\_\_

- b. About how many hour/week of TV do people watch if they read for 10 hours? \_\_\_\_\_
- c. Complete the following sentence. The trend seems to be that, the more time you spend watching TV,

d. What is the equation of the line of best fit to 2 decimal places \_\_\_\_\_

e. What is the value of r? \_\_\_\_\_

- f. What is the correlation? \_\_\_\_\_
- g. Extrapolate the number of hours of reading per week if a person watched no TV

h. Extrapolate the number of TV viewing hours per week if a person didn't read.

i. What is healthier? TV watching or Reading books? \_\_\_\_\_