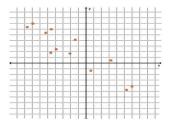


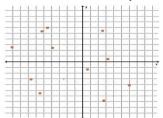
Fitting	•	I ina	to	Data:	Predict	tione	with	Linear	Mode	ıle
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Name Date

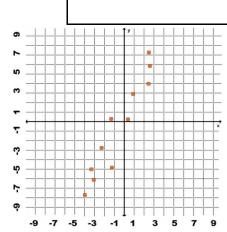
1. Describe the relationship between the x and y variables shown on this scatter plot.



2. Describe the relationship between the x and y variables shown on this scatter plot.



3. Draw your best fitting line for the data points on this graph.



4. Write an equation that models the relationship between x and y shown on the above graph.



5. Use the equation you created to predict what y would equal if x was 9.

6. Is this prediction an interpolation or an extrapolation?

7. If you were to make a prediction of y's value when x = 0, what you would call this prediction?

8. The table below shows the results of a survey of students after a recent math test. Plot the data, fit a line, and create an equation to describe the line. Your slope and your y-intercepts will only be estimates, and may vary from my estimates.

₋ 10 ²	-					_	_	_		
10 [°] 9 8	-	-	+	-	-	+	+	+	+	-
-8		+	+	+	+	+	+	+	+	-
7	-	+	+	+	+	+	+	+	+	-
-6	-	+	+	+	+	+	+	+	+	-
6 5	-	+	+	+	+	+	+	+	+	-
		+	+	+	+	+	+	+	+	-
4 3 2		+	+	+	+	+	+	+	+	-
-2	-	+	+	+	+	+	+	+	+	-
1	-	+	+	-	+	+	+	+	+	-
<u><-1</u> -1,		2	3	4	5	6	7	8	9	10

x: hours spent studying	y: questions answered correctly		
0	2		
4	4	m	
2	2	b	
6	4	equation	
1	3		
3	4		
	6		

9. Based upon your work above, make an interpolation to estimate the number of questions you would correctly answer if you studied for 7 hours.