# MathFLIX CHALLENGE
Line of Best Fit

A "line of best fit" is drawn through a set of data points so the same number of points appear above the line as below the line. We can use a "line of best fit" to help make predictions. Study the following samples to decide if they illustrate a "line of best fit." If the line is incorrect, draw a new correct line of best fit so there are an equal number of points on both sides of the line.
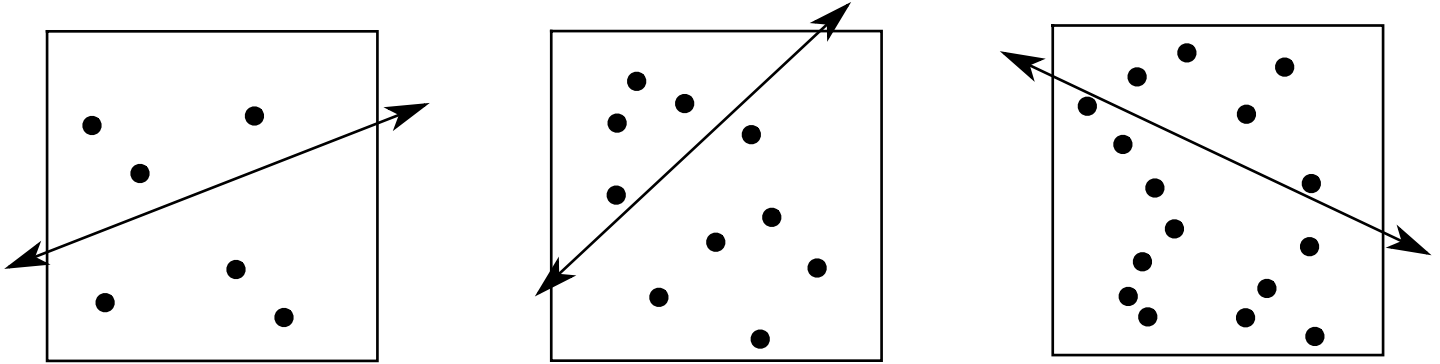
Plot the ordered pairs in the table below then use a toothpick or a strand of spaghetti to determine the line of best fit. Once you are satisfied with your line of best fit, use a ruler to draw it then answer the questions that are below the table and graph.

Study Hours	Test	Ordered Pairs
3	80	(3,80)
5	90	(5,90)
2	75	(2,75)
6	80	(6,80)
7	90	(7,90)
1	50	(1,50)
2	65	(2,65)
7	85	(7,85)
1	40	(1,40)
7	100	(7,100)
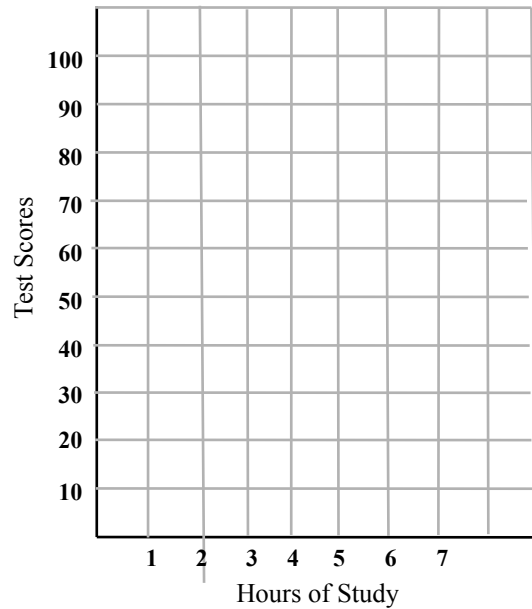
1. All students are different, but approximately how many hours of study are necessary to get a score of 82?

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2. If a student scores 55%, approximately how many hours might you predict the student spent studying?

_____

3. If your friend wants to pass the test with a 70%, how much time should you tell your friend to study?

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4. Circle the word that makes this sentence true: The data indicates that the (more fewer) hours of study, the (higher lower) the test score.