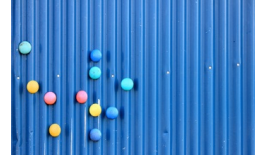


## Ready, Set, Go!



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## Ready

Topic: Estimating the line of best fit

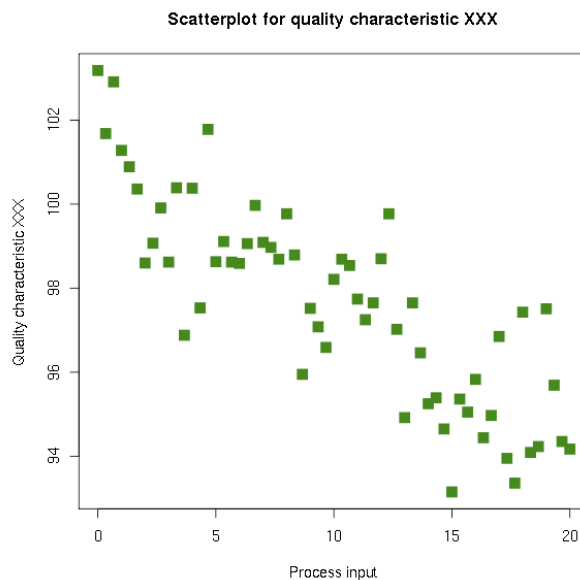
Examine the scatterplot below. Imagine that you drew a straight line through the general pattern of the points, keeping as close as possible to all points with as many points above the line as below.

1. Predict a possible y-intercept and slope for that line.

a. y-intercept: \_\_\_\_\_

b. slope: \_\_\_\_\_

2. Sketch the line that you imagined for question #1 and write an equation for that line.



© 2012 [http://en.wikipedia.org/wiki/File:Scatter\\_diagram\\_for\\_quality\\_characteristic\\_XXX.svg](http://en.wikipedia.org/wiki/File:Scatter_diagram_for_quality_characteristic_XXX.svg)

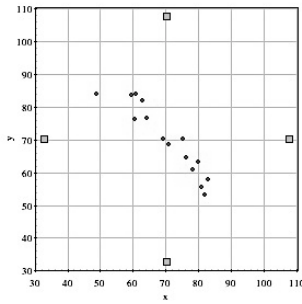


Set

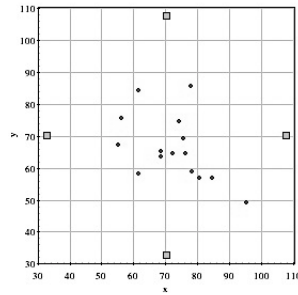
Topic: Estimating the correlation coefficient

Match the scatterplot with its correlation coefficient.

\_\_\_ 3.



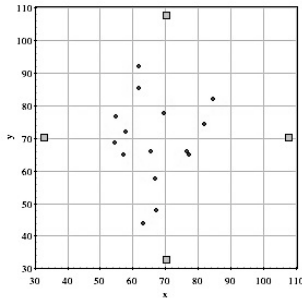
\_\_\_ 4.



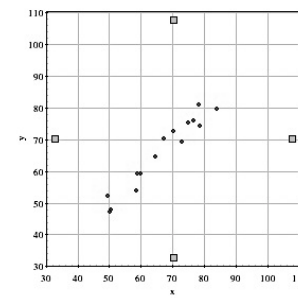
Possible  
Correlation Coefficients

- a. 0.05
- b. 0.97
- c. -0.94
- d. -0.49
- e. 0.68

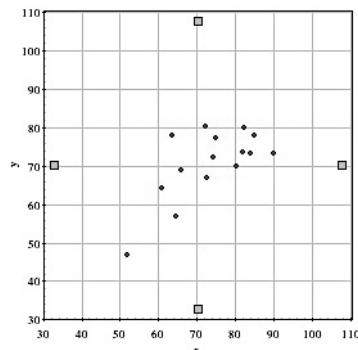
\_\_\_ 5.



\_\_\_ 6.



\_\_\_ 7.

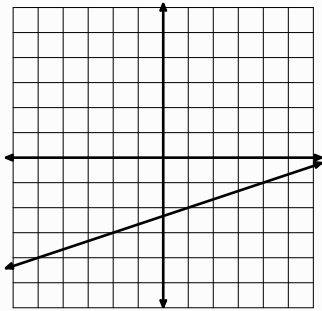


**Go**

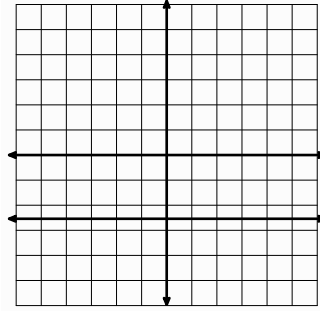
Topic: Visually comparing slopes of lines

**Follow the prompt to sketch the graph of a line on the same grid with the given characteristics.**

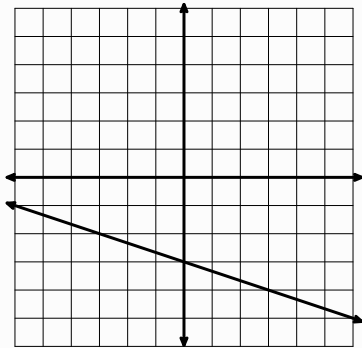
8. A larger slope



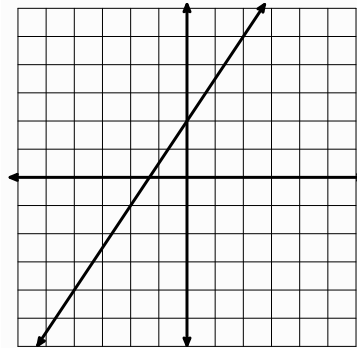
9. A smaller slope



10. A larger y-intercept and a smaller slope



11. Slope is the negative reciprocal



Need Help? Check out these related videos:

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalities/v/fitting-a-line-to-data>