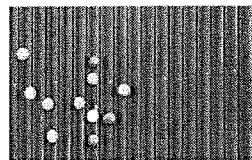


Name: _____

Modeling Data | 8.5

Ready, Set, Go!



© www.flickr.com/photos/28481088@N00/6913934266

Ready

Topic: Estimating the line of best fit

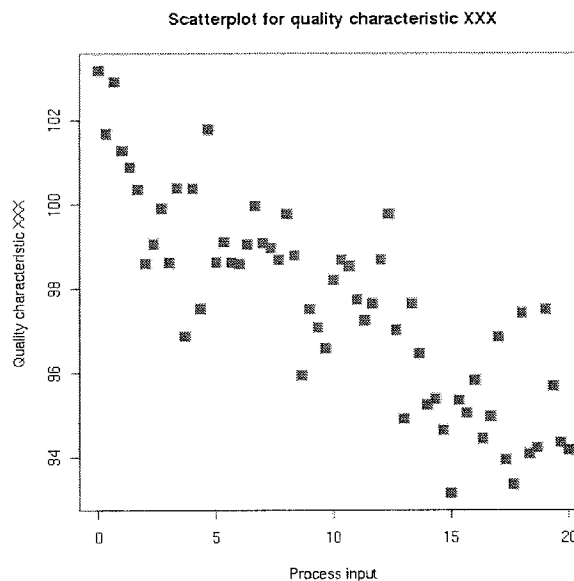
Examine the scatterplot below. Imagine that you drew a straight line through the general pattern of the points, keeping as close as possible to all points with as many points above the line as below.

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

© 2012 Mathematics Vision Project | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license.

Name:

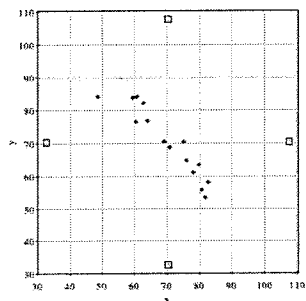
Modeling Data | 8.5

Set

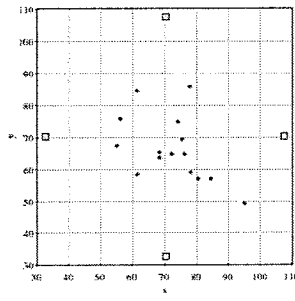
Topic: Estimating the correlation coefficient

Match the scatterplot with its correlation coefficient.

3.



4.

Possible
Correlation Coefficients

a. 0.05

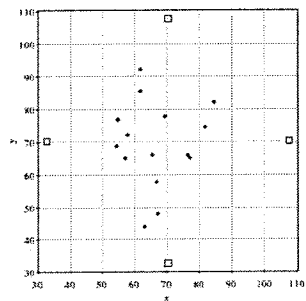
b. 0.97

c. -0.94

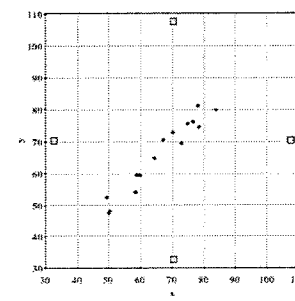
d. -0.49

e. 0.68

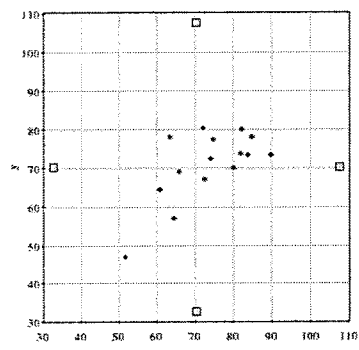
5.



6.



7.



© 2012 Mathematics Vision Project | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license.

Name: _____

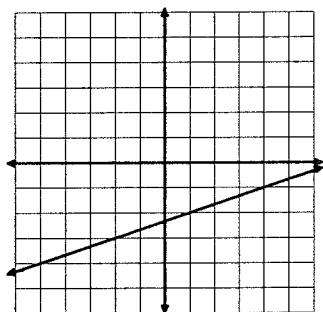
Modeling Data | 8.5

Go

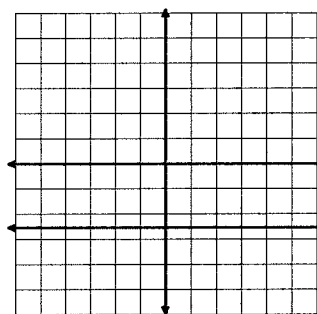
Topic: Visually comparing slopes of lines

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

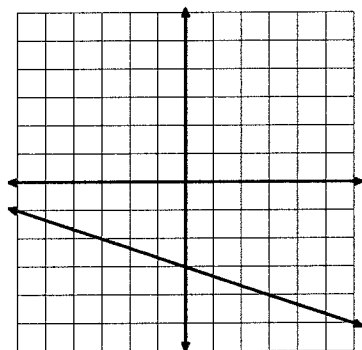
8. A larger slope



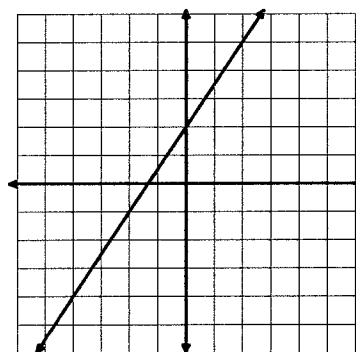
9. A smaller slope



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>

© 2012 Mathematics Vision Project | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license.