

# Where in the World is.....



Distance from the Outer Banks of NC to...	Miles	Kilometers
Columbus	484.11	779.10
Calgary	2,155.46	3,468.88
Nashville	628.82	1,011.99
New Orleans	933.11	1,501.70
Washington	217.16	349.48
Denver	1,616.87	2,602.10
Chicago	762.75	1227.52
Dallas	1,232.19	1,983.01

Make a scatter plot with “Miles” on the horizontal axis and “Kilometers” on the vertical axis.

Describe the relationship you observe.

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Add a movable line to your graph and estimate a line of best fit.

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Calculate the regression line for the data.

Write the equation for the line of best fit for your data.

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What is the slope of your line?

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What does the slope mean in the context of the problem?

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Kyra found the distance between two locations to be 395.7 kilometers. What would this measure be in miles? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.

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What is the distance in kilometers between two cities if the distance between them is 2,395.6 miles? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.