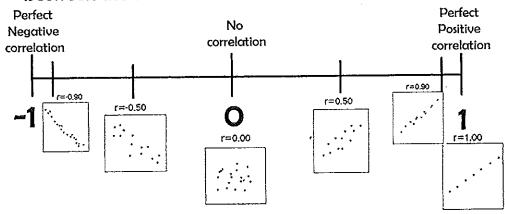
Notes continued:

Correlation Coefficient (r):

Measures the strength of the correlation (association) between the data on a scale from -1 to 1.



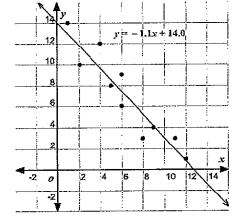
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Notes continued:

Least Square Regression Line (LSRL):

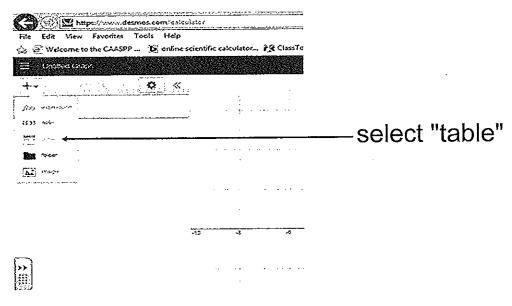
Think of it as an equation that represents an extremely accurate line of best fit for your scatterplot data.

y=mx+b
slope y-intercept





Inputting data into desmos:



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Notes continued: Describing the association:

Strength:

Look at the correlation coefficient (r).

The closer (r) is to -1 or 1 the stronger the correlation.

Look at the graph. The less scattered the data from the LSRL, the stronger the correlation.

Form/Shape:

The shape of the association.

Linear? Non-Linear? Clusters?

Direction:

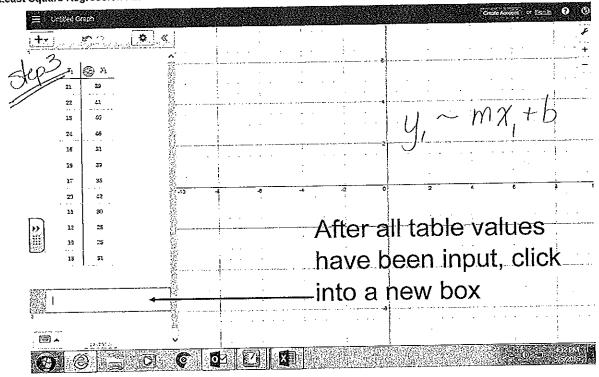
Positive correlation-as one variable increases, the other variable increases

Negative correlation- as one variable increases, the other variable decreases †

Outliers:

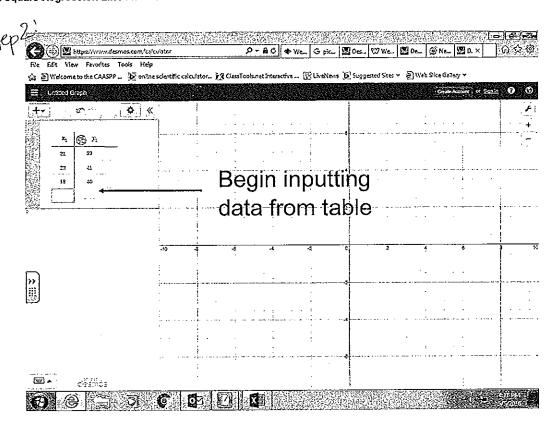
Look at the graph.
Do any of the data
points not follow the
trend? (far away
from LSRL)

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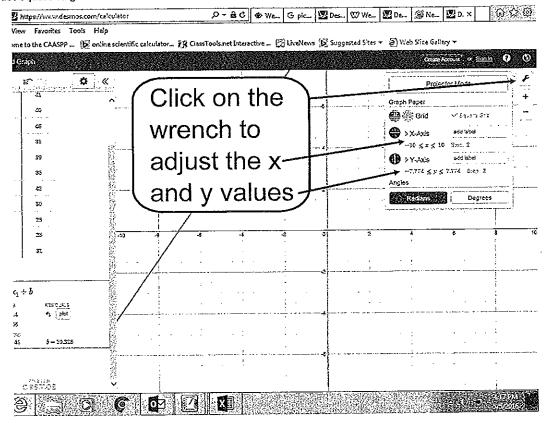


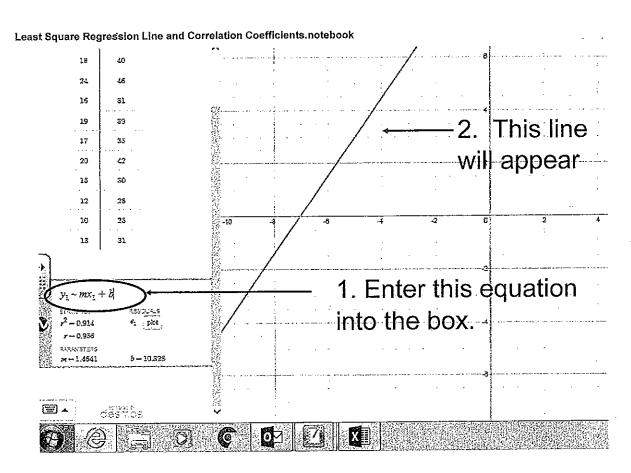
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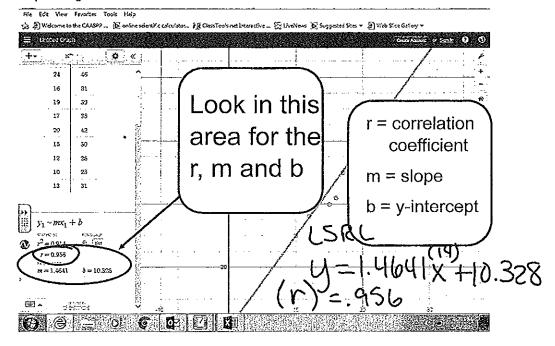


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