

U3 L1 I3 Correlation Notes

- I can determine the strength and direction of the linear model based on the correlation coefficient.
- When computing Linear Regression on the calculator, the correlation coefficient is the
 -value that is given.
- o It is always a number between ____ and ____
- o It indicates the <u>direction</u> and <u>Strength</u> between the variables.
- o If r is ______ the slope of the line is positive and the correlation is positive.
- o If r is regative and the correlation is negative.
- o If r is closer to 1 or -1, the association is Strong(er).
- o If r is closer to 0, the association is weak (er)

After taking notes above, describe what the following correlation coefficients would mean. Be sure to describe their direction and strength!

A. r=0.99928 positive, Strong come

B. r=-0.97546 regative, Strong

c. r=0.67823 positive moderate

D. r=-0.21236 hegative weak

Sketch an example of what the scatterplot would look like for the r-values above.

A. ______

B. The fire the tope of

C.