



**Correlation
Coefficient
Foldable**

Thank you for buying my foldable!

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Instructions

Print or copy page 3 and 4 double sided.

Place the paper so the examples are face down.

Cut along the dotted lines to create flaps.

Flip and fold the flaps inwards.

Glue the foldable into notes or on a piece of construction paper.

Go through the foldable with your students.

What does data
with a correlation
coefficient of
 $r = 0$
look like?

What does data
with a correlation
coefficient of
 $r = -1$
look like?

What does data
with a correlation
coefficient of
 $-1 < r < 0$
look like?

What is a
Correlation
Coefficient

What does data
with a correlation
coefficient of
 $r = 1$
look like?

What does data
with a correlation
coefficient of
 $0 < r < 1$
look like?

Preview

What is a correlation coefficient?

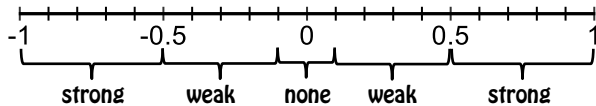
A correlation coefficient of data, r , is a number between -1 and 1 that measures how well a line fits data points.

The range of a correlation coefficient is $-1 \leq r \leq 1$.

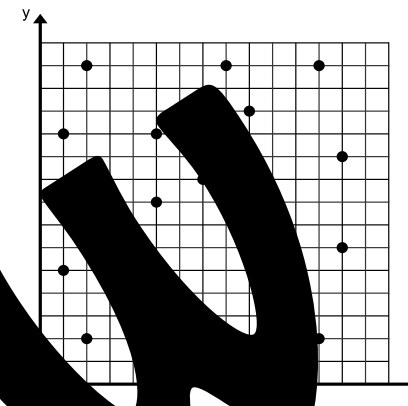
A value of r close to 1 indicates a strong positive correlation

A value of r close to -1 indicates a strong negative correlation.

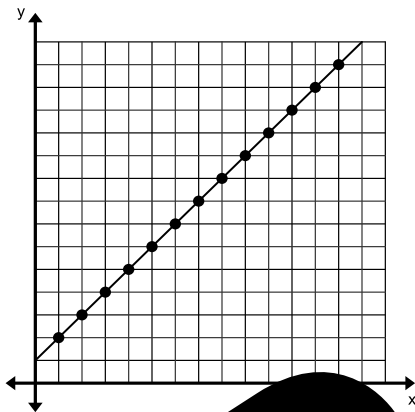
A value of r close to 0 indicates no correlation.



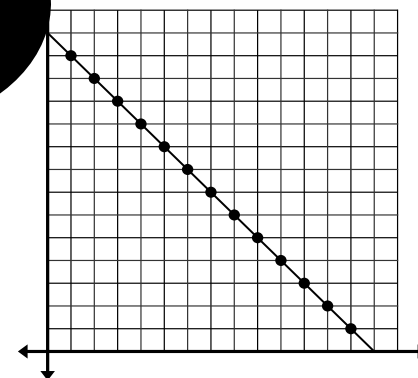
What does data with a correlation coefficient of $r = 0$ look like?



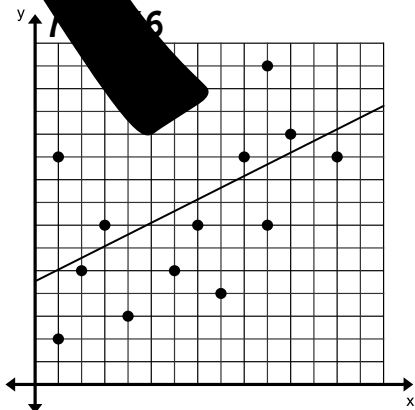
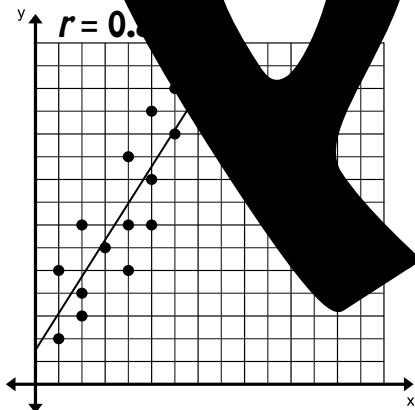
What does data with a correlation coefficient of $r = 1$ look like?



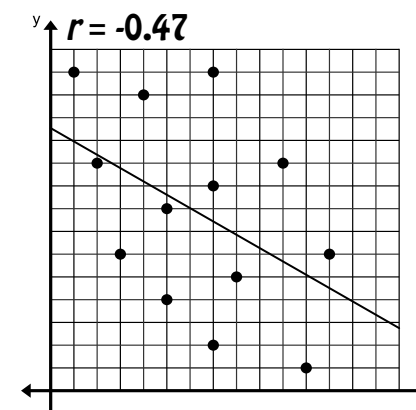
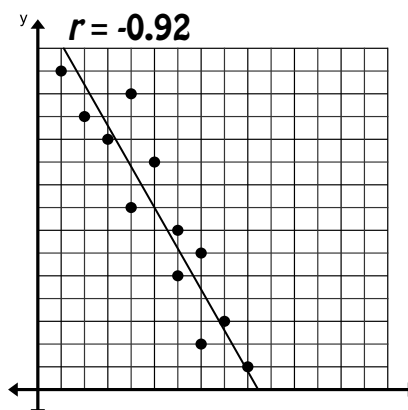
What does data with a correlation coefficient of $r = -1$ look like?



What does data with a correlation coefficient of $0 < r < 1$ look like?



What does data with a correlation coefficient of $-1 < r < 0$ look like?



Preview

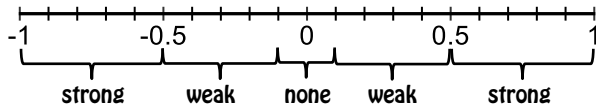
What is a correlation coefficient?

A correlation coefficient of data, r , is a number between -1 and 1 that measures how well a line fits data points.

The range of a correlation coefficient is $-1 \leq r \leq 1$.

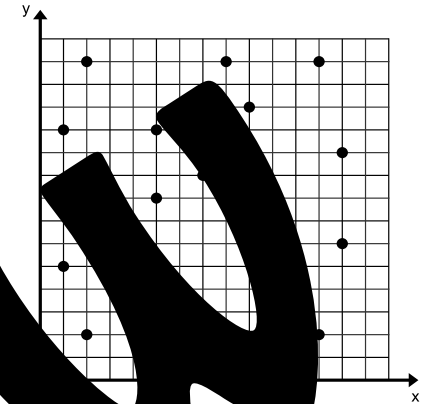
A value of r close to 1 indicates a strong positive correlation
A value of r close to -1 indicates a strong negative correlation.

A value of r close to 0 indicates no correlation.

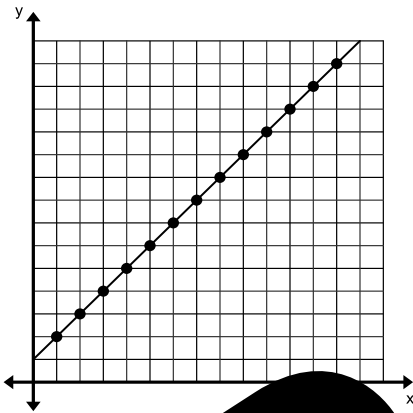


What does data with a correlation coefficient of $r = 0$ look like?

The data does not show any linear relationship between x and y so there is no correlation.



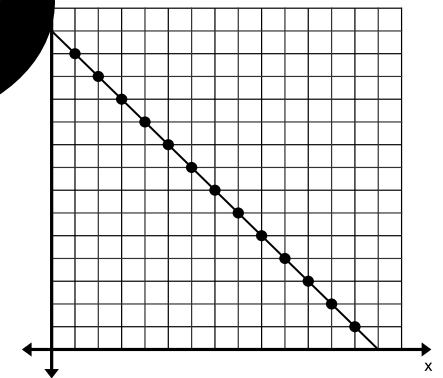
What does data with a correlation coefficient of $r = 1$ look like?



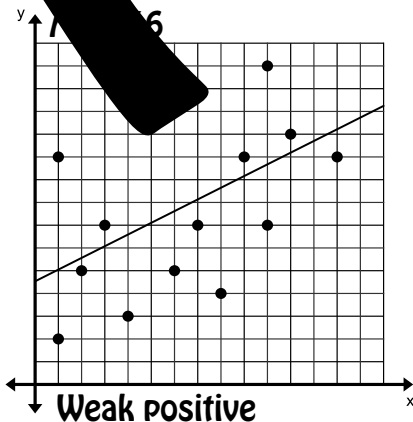
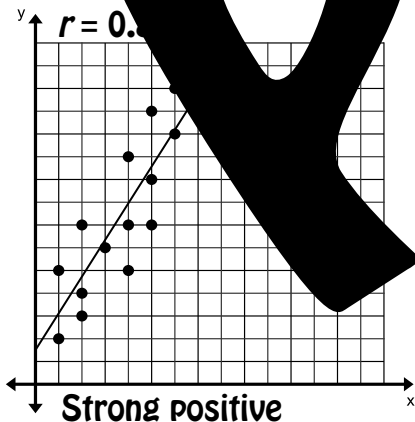
The linear regression model fits the data perfectly with a positive slope.

What does data with a correlation coefficient of $r = -1$ look like?

The linear regression model fits the data perfectly with a negative slope.



What does data with a correlation coefficient of $0 < r < 1$ look like?



What does data with a correlation coefficient of $-1 < r < 0$ look like?

