

Name: _____

Date: _____

Period: _____

Algebra Chapter 4 Vocabulary Study Guide

N 1. best-fit line (line of best fit)

C 2. bivariate data

J 3. constant function

L 4. constraint

K 5. correlation coefficient

E 6. line of fit (trend line)

F 7. linear interpolation

B 8. linear extrapolation

H 9. linear regression

A 10. negative correlation

P 11. no correlation

G 12. parallel lines (specifically slope)

O 13. perpendicular lines (specifically slope)

M 14. point-slope form

I 15. positive correlation

Q 16. scatter plot

D 17. slope-intercept form

~~A.~~ When all the points on a scatter plot trend down as you move left to right the plot is said to have a _____

~~B.~~ _____ is the process of using linear equations to make predictions about values that are beyond the range of the given data

~~C.~~ _____ is a set of data with two variables

~~D.~~ An equation of the form $y = mx + b$ where m is the slope and b is the y-intercept is in _____

~~E.~~ A _____ is a line that lies close to the data points and is used to model the trend of the data.

~~F.~~ _____ is the process of using linear equations to make predictions about values that is within the range of the given data

~~G.~~ _____ are two lines that never intersect and have the same slope

~~H.~~ _____ is the process of finding the line of best fit on a calculator or computer program.

~~I.~~ When all the points on a scatter plot trend up as you move left to right the plot is said to have a _____

~~J.~~ A _____ is a function that has a slope of zero and when graphed is a horizontal line.

~~K.~~ The _____ is the r value given by the calculator when using linear regression to find the line of best fit that tells how well the equation fits the data.

~~L.~~ _____ is a condition that a solution must satisfy.

~~M.~~ An equation of the form $y - y_1 = m(x - x_1)$ where m is the slope and (x_1, y_1) is on the line.

~~N.~~ The _____ is a more precise line of fit found using a calculator or a computer program.

~~O.~~ _____ are two lines that have opposite reciprocal slopes and intersect at a 90° angle.

~~P.~~ When there appears to be no relationship in a scatter plot the plot is said to have _____

~~Q.~~ A _____ shows the relationship between a set of data with two variables, graphed as ordered pairs on a coordinate plane.