

Notes 9.2 Linear Regression

Regression line – Line of best fit

When determining the equation of a regression line, it is helpful to construct a scatter plot of the data to check for:

-
-
-

Example:

The number of hours 12 students spent online during the weekend and the scores of each student who took a test the following Monday are given below:

Hours spent online, x	0	1	2	3	3	5	5	5	6	7	7	10
Test score, y	96	85	82	74	95	68	76	84	58	65	75	50

a. Sketch a graph of the distribution.

b. Find the regression line

c. Find the correlation coefficient.

d. Use the regression line to predict the test scores given the time online:

$x = 4$ hours

$x = 9$ hours

$x = 15$ hours

Notes 9.2 Linear Regression

Assignment: new: pgs 519/17, 19, 20