

NAME: _____

P.I. A.S.7: Create a scatter plot of bivariate data

P.I. A.S.8: Construct manually a reasonable line of best fit for a scatter plot and determine the equation of that line

P.I. A.S.12: Identify the relationship between the independent and dependent variable from a scatter plot (positive, negative, or none)

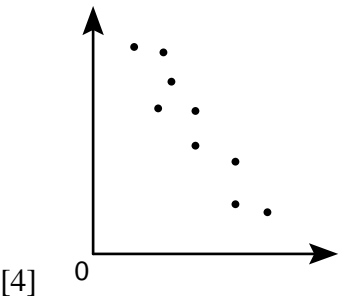
1. Explain what a trend line shows about the data it describes. What additional information can a trend line give about the data?
2. Describe and sketch the relationship between the amount of water in a tank and the time that elapses after a hole develops in the tank.
3. Measure the heights and arm spans in centimeters of six classmates. Graph the ordered pairs (height, arm span). Do the ordered pairs fit any pattern? Which points do not fit the pattern?

A trend line shows the positive or negative correlation between two sets of data. It can be used to make
[1] predictions about the data it describes.

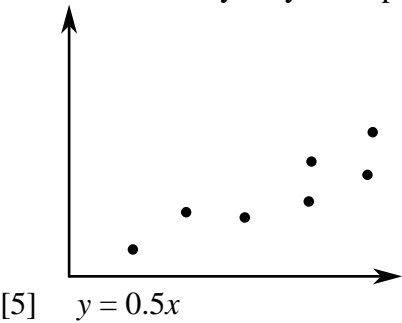
As the time elapses after the hole develops, the amount of water in the tank decreases. The sketch shows
[2] a strong, negative correlation.

[3] In general, as height increases, so does arm span.

Answers may vary. Sample:



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Age	Number of Airplane Trips
4	1
10	1
45	20
50	2
38	0
16	2
23	12
21	8
24	15
31	18