

NAME: _____

Key

Statistics and Probability

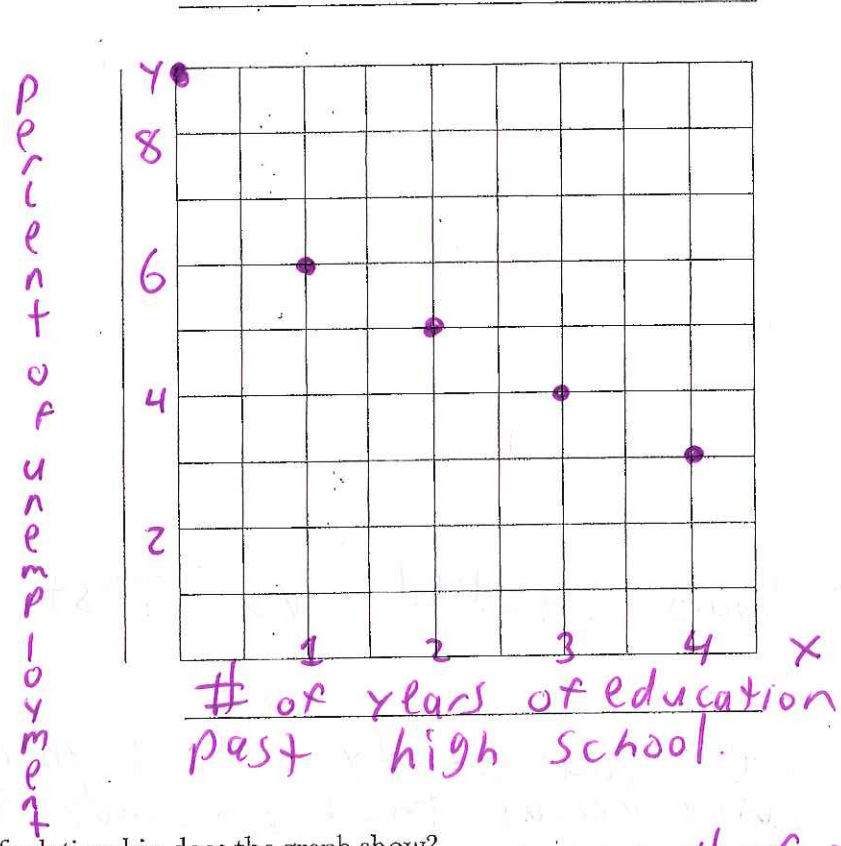
Set 2: Scatter Plots

Station 3

You will be looking at a relationship between two variables and describing other variables that have the same kind of relationship.

The table below contains information about post-high school education and unemployment. Use it to make a line graph. Label the axes of the graph on the lines provided, and give it a title.

Years of education past high school	0	1	2	3	4
Percent of unemployment	9	6	5	4	3



What kind of relationship does the graph show?

Negative correlation. As the # of years of education past high school increases, the % of unemployment decreases. (vice versa) As # of yrs ↑, % of unemployment ↓

What are some other variables that have a similar relationship?

Height (Altitude) vs Barometric Pressure.
Price of an item vs. # of items sold.

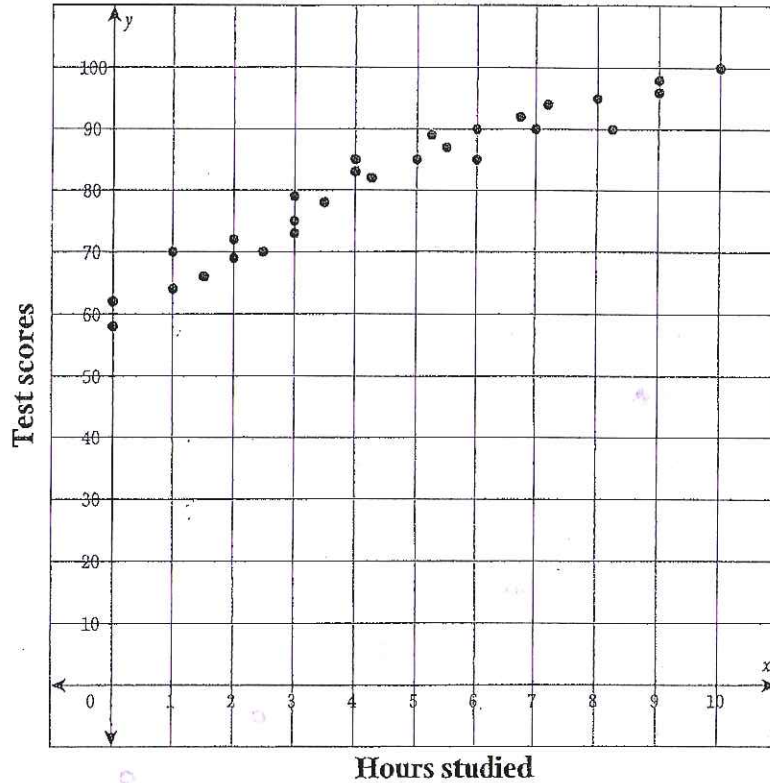
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Set 2: Scatter Plots

Discuss the following scatter plot with your group, and then work together to answer the questions.

Hours Studied vs. Test Score



What two pieces of data are being compared in this scatter plot?

of hours studied vs. Test scores.

What do you notice about the general trend of the data in this scatter plot?

The more you study the higher the Test score. (vice versa) The \downarrow you study, the \downarrow test score.

If you were told that a student spent half an hour studying, about what grade would you expect that student to earn on the test?

About a score of 60.

What information did you use to make that prediction?

I went vertically straight up from the $\frac{1}{2}$ hr x-value until I reached the rest of points. It came to a y-value of about 60.