

Quiz: Scatter Plots and Line of Best Fit

1 Variable p is the number of employees trained on new software, and variable q is the number of calls to the computer helpline. You suspect that more training reduces the number of calls. Does this follow positive correlation or negative correlation?

The table lists the number of population of a city from the year 1960 to 1995. Sketch a scatter plot of the data.

2	Year	1960	1964	1971	1976	1982	1985	1993	1995
	Population (in thousands)	15	19.5	21	24	27	30	33	37.50

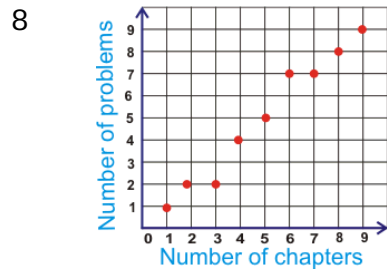
3 Draw the line of best fit.

4 What type of correlation does this graph show?

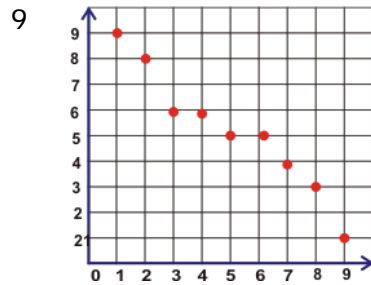
5 Calculate the slope of the line through points (24, 1970) and (33, 1993).

6 Write the equation of the line.

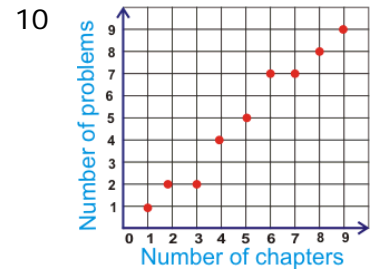
7 Predict the population based in year 1970.



If you are asked to interpolate information from this graph, to what number of chapters do you have to limit the number of problems?



What type of graph is this – positive correlation or negative correlation?



Find the number of problems in chapter number 10.

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%