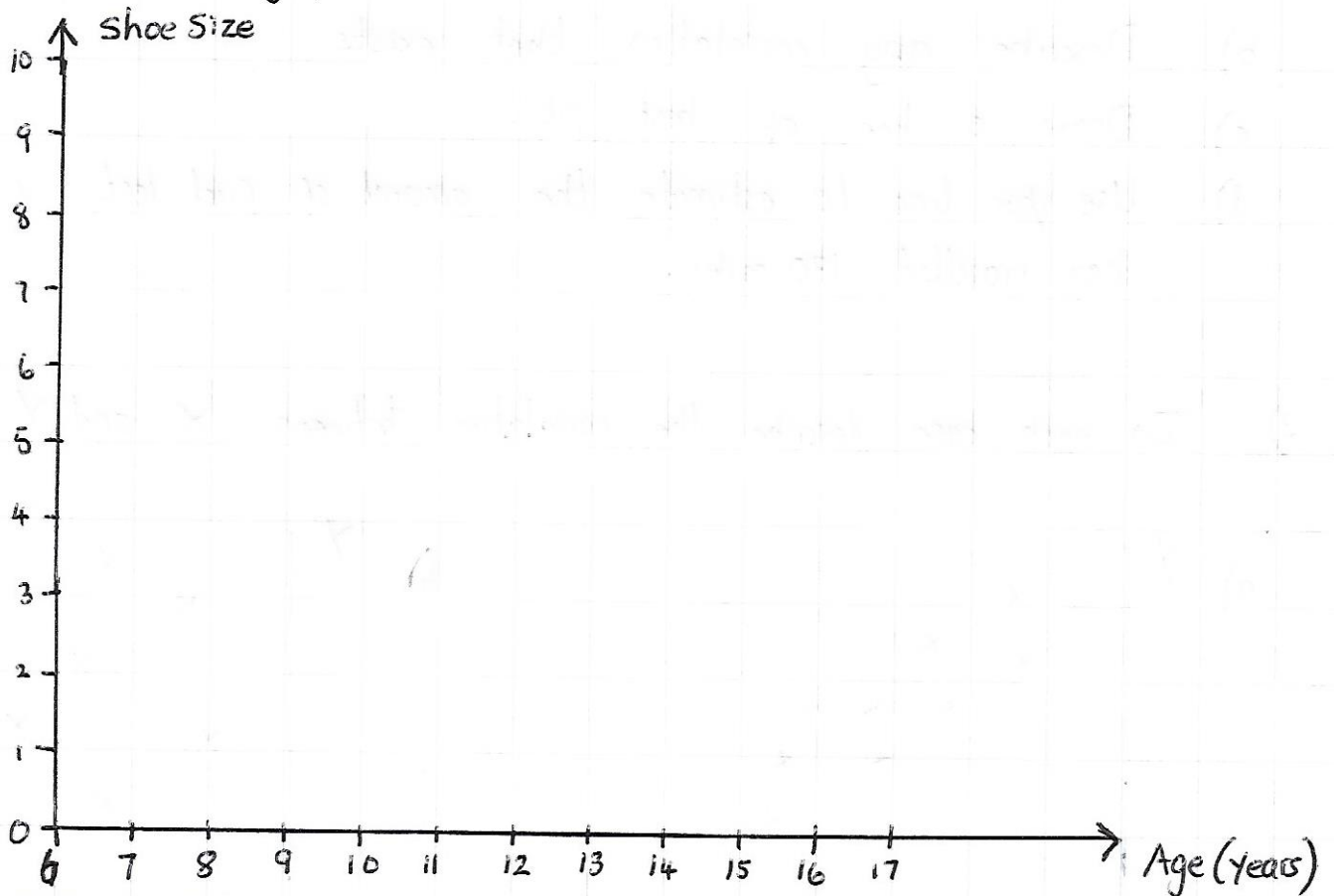


Year 8 Assignment 2: Scatter Graphs

- i) The table below shows the age in years and the shoe size of 12 pupils.

Age (years)	10	15	16	12	8	16	14	11	10	9	13	15
Shoe Size	4	9	9	7	3	8	8	5	3	4	7	10

- a) Set up the axes as shown below in your book and plot a scatter graph.



- b) Describe the correlation if any exists.
- c) Draw a line of best fit.
- d) Use the line of best fit to estimate the shoe size of a 7 year old.

- 2) The table below shows the number of miles travelled by 16 cars and the amount of fuel left in the fuel tank in litres.

Miles	90	60	100	40	120	30	80	90	110	60	50	100	20	140	70
Litres Left	11	15	10	22	6	22	12	10	8	14	16	9	24	5	11

- Draw a scatter graph using miles as the horizontal axis and litres left as the vertical axis.
- Describe any correlation that exists
- Draw a line of best fit.
- Use your line to estimate the amount of fuel left if the car has travelled 130 miles.

- 3) In each case describe the correlation between X and Y .

