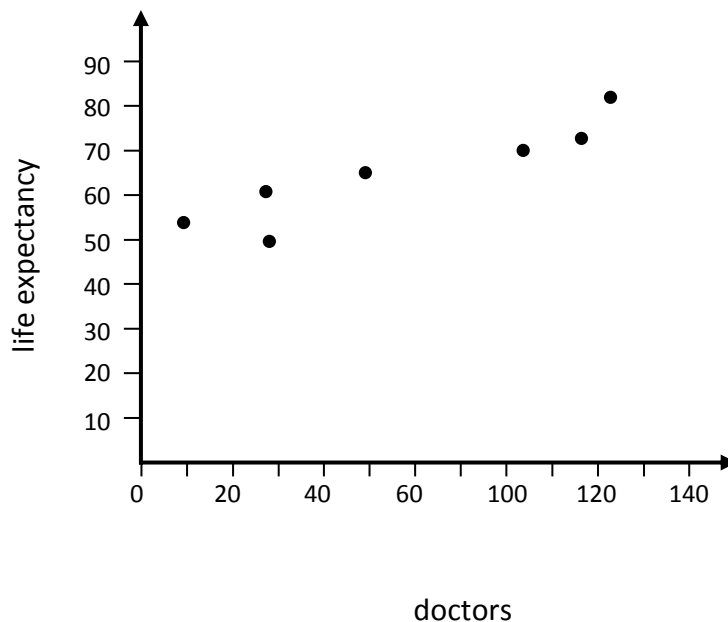




4 Question Challenge on...

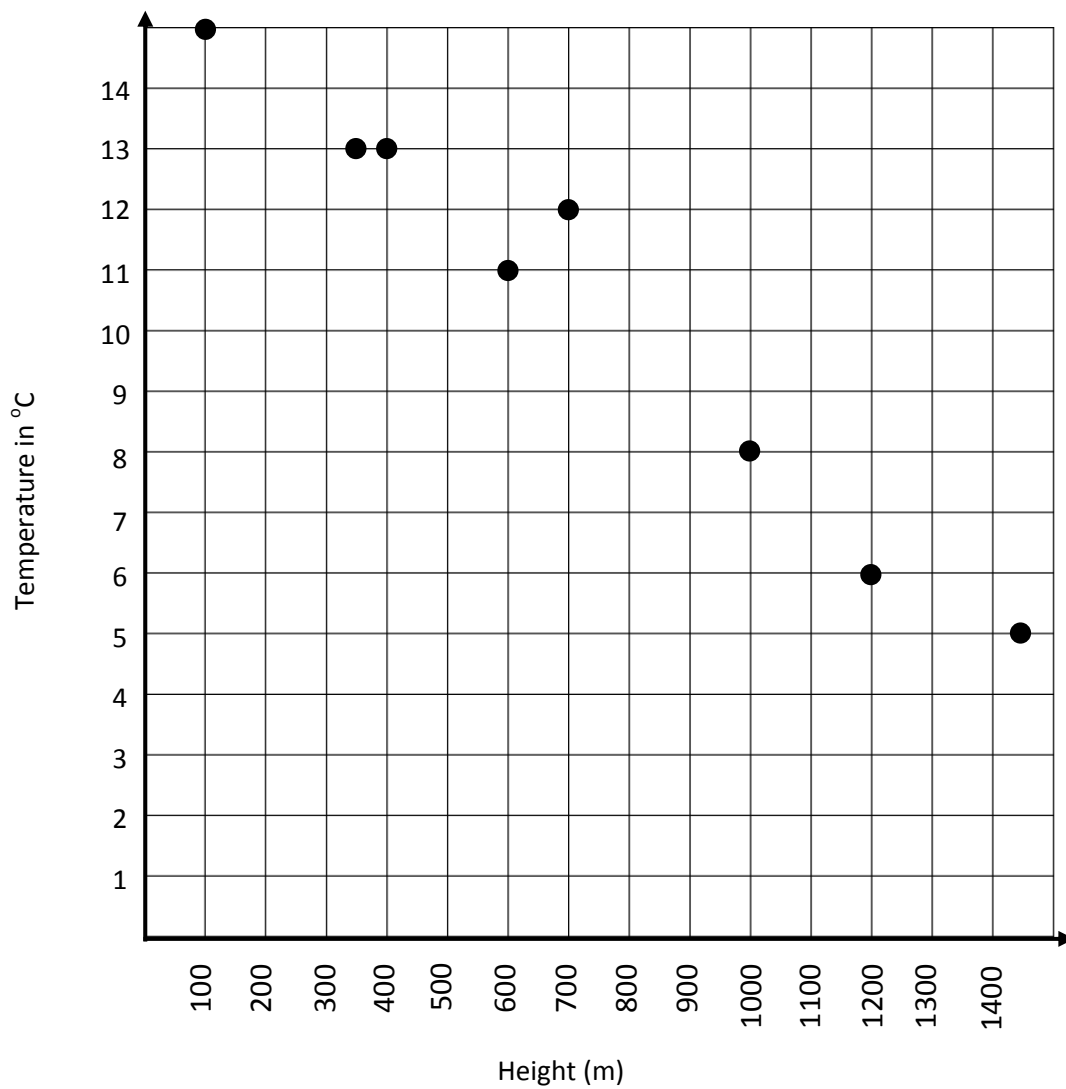
Scattergraphs

- Q1** The graph below shows the relationship between the number of doctors per 10 000 of population and life expectancy in seven countries.



- (a) Draw the line of best fit onto the diagram.
- (b) Use your line to estimate life expectancy in a country with 80 doctors .

- Q2** The graph shows the height above sea-level, in metres, of eight places in Scotland and the corresponding temperatures.

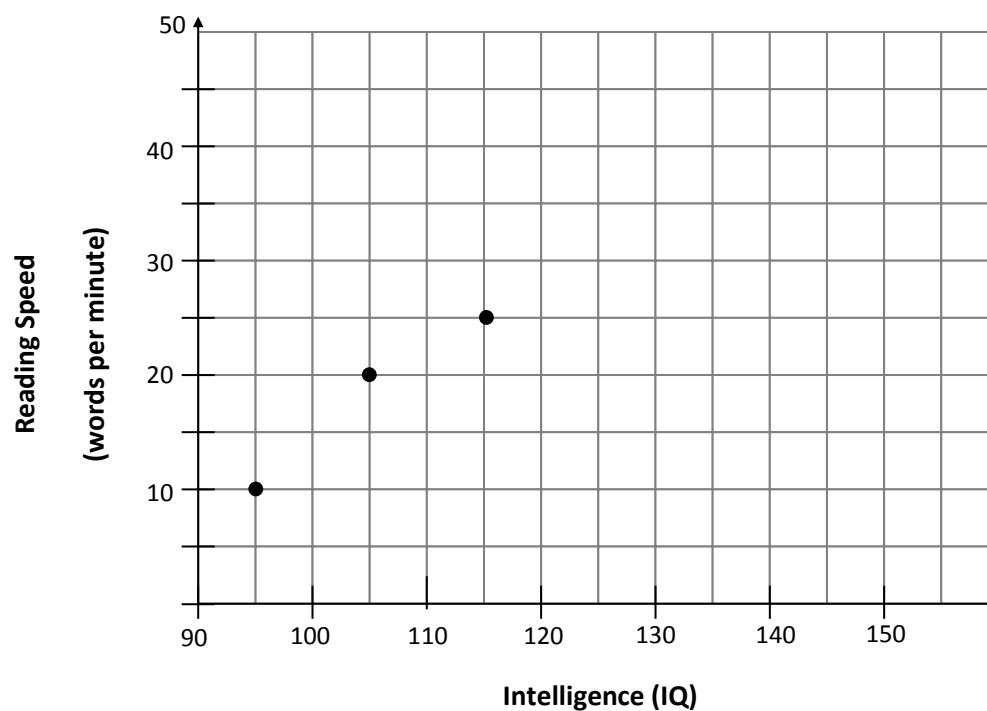


- (a) Draw a line of best fit through the points on the graph.
- (b) Use your line of best fit to estimate the temperature of a place which is 800metres above sea-level.

- Q3** The table below shows the results of an experiment to test the relationship between intelligence and reading speed (words per minute) in a group of 8 year olds.

Intelligence(IQ)	95	105	115	125	135	140	150
Reading Speed	10	20	25	25	40	35	50

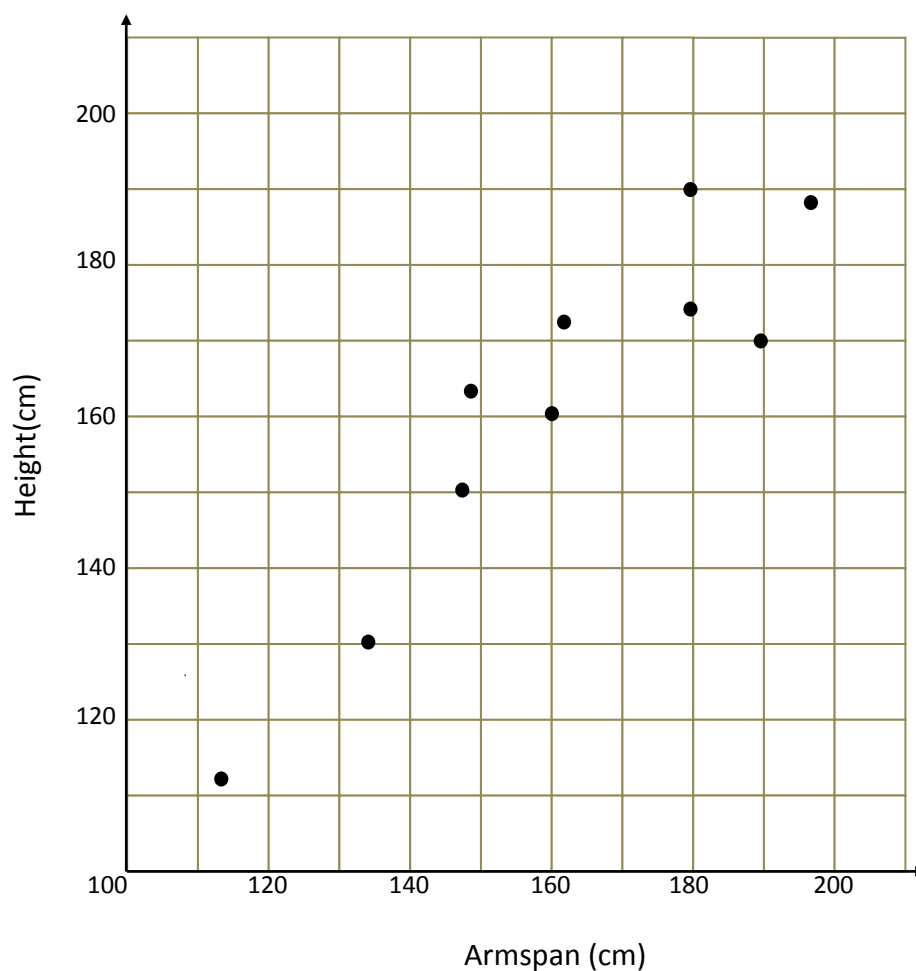
- (a) Complete the scatter graph below to illustrate this.



- (b) Draw the line of best fit on your graph.

Q4 The graph shows the arm span and height of 10 people.

(a) Draw a line of best fit on the diagram.



(b) Use your line of best fit to estimate the height of a person who has an arm span of 170cm.