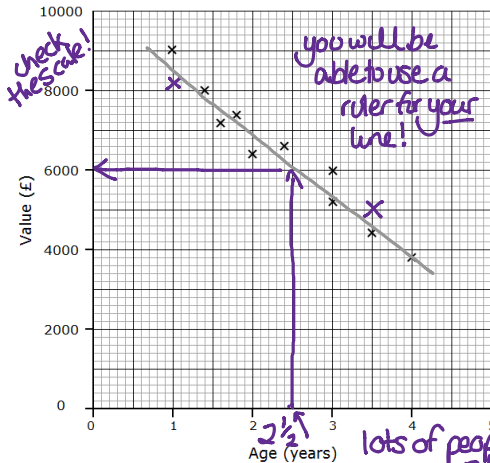


Scatter Graphs

How to ...

The scatter graph shows information about 10 cars of the same type and make.

The graph shows the age (years) and the value (£) of each car.



The table shows the age and the value of two other cars of the same type and make.

Age (years)	Value (£)
1	8200
3.5	5000

a) On the graph plot these two points.

b) Describe the relationship between the age and the value of the cars

its a negative correlation.

(1)

A car of the same type and make is 2 and a half years old.

Draw a line of best fit! (with a ruler!)

c) Estimate the value of the car

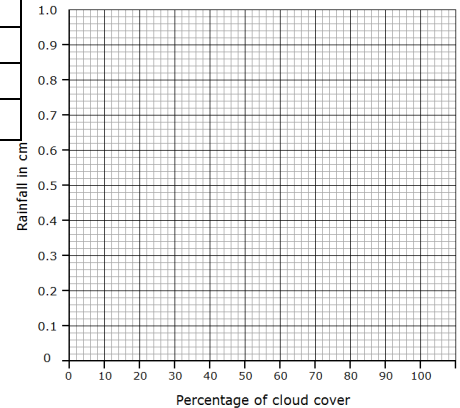
£6000

(2)

Now have a go yourself ...

Every Saturday for 5 weeks in the Autumn the number of centimetres of rainfall and the percentage of cloud cover were recorded by a group of students. The results are shown in the table:

Cloud cover %	Rainfall cm
55	0.48
10	0.24
60	0.52
85	0.84
5	0.10



a) On the graph, draw a scatter diagram of the results . (1)

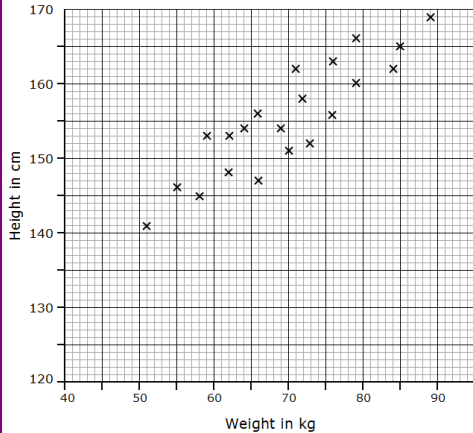
b) Draw, by eye a line of best fit. (2)

c) Describe the relationship between the percentage of cloud cover and the amount of rain. (1)

d) Find an estimate for the percentage of cloud cover on a day with 0.6 cm of rainfall. (2)

Exam Question

The scatter diagram shows the height, in cm, and the weight, in kg, for each of 20 members of a sports club.



a) Write down the height and weight of the heaviest of the 20 members of the sports club.

Weightkg

Heightcm

(2)

b) Write down the type of correlation shown in the scatter diagram.

(1)

c) Draw, by eye, a line of best fit on the scatter diagram.

(1)

d) Estimate the weight of a person of height 155 cm.

(2)

e) Is it possible to estimate the weight of a person with a height of 210 cm from the scatter diagram. You must give a reason (1)

Ready to be marked ?

Checklist



Answer checked

Points plotted

Line of best fit



Keywords



Things to remember ...



What went well ...

Teacher comment ..