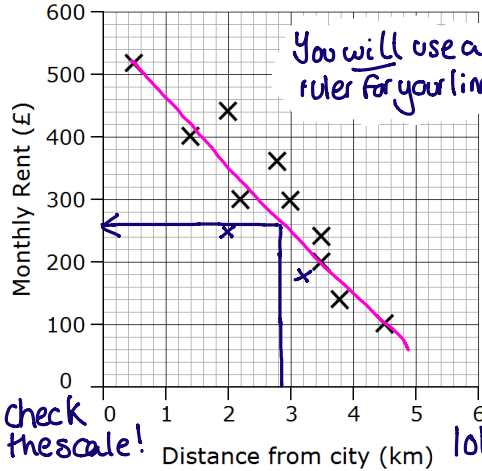# Scatter Graphs

How to ...

I ALWAYS LIKE TO DRAW A LINE OF BEST FIT

The scatter graph shows information about 10 apartments in a city.

The graph shows the distance from the city and the monthly rent of each apartment

You will use a ruler for your line

The table shows the distance from the city centre and the rent of two other apartments

Distance	Rent
km	£
2	250
3.2	180

check the scale!

a) On the graph plot these two points.

lots of people miss this out!! ☹ **(2)**

b) Describe the relationship between the distance from the centre and the monthly rent.

NOTE if the points go its a positive correlation

its a negative correlation **(1)**

An apartment is 2.8km from the city centre.

c) Find an estimate for the monthly rent for this apartment.
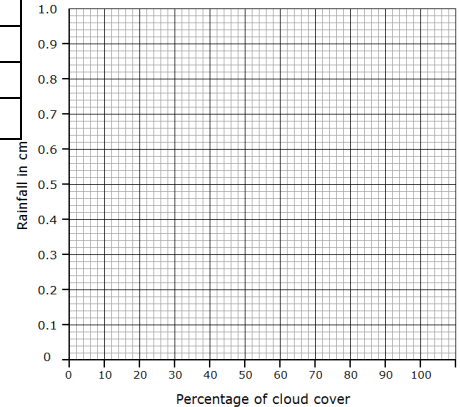
Use your line of best fit *=£260* **(2)**

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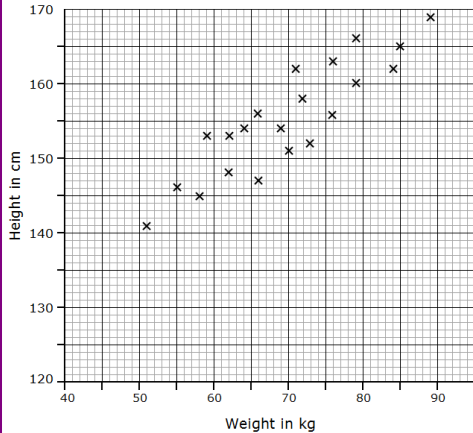
Cloud cover %	Rainfall cm
55	0.48
10	0.24
60	0.52
85	0.84
5	0.10

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.

Weight ....kg

Height ....cm

(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)**