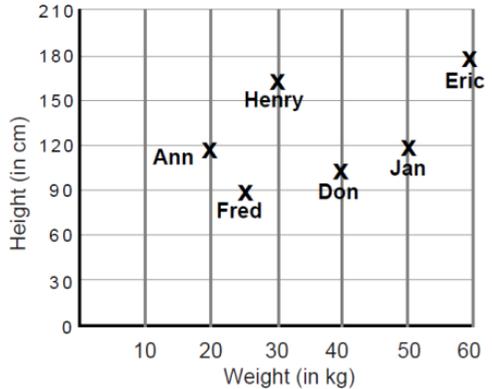
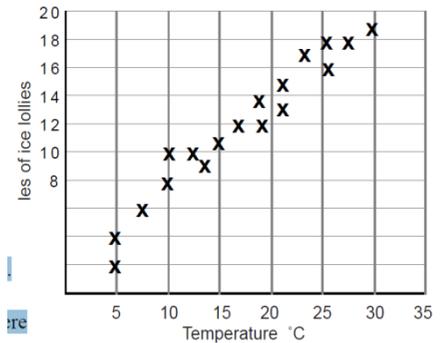


# Scatter Graphs

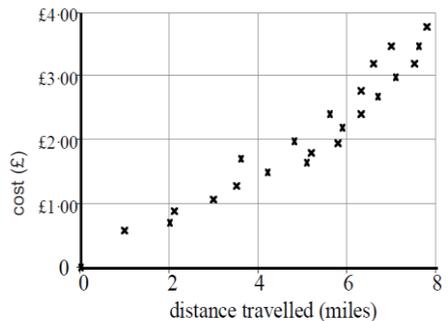
- 1) The scattergraph shows the height and weight of six children.
  - a) What height is Fred?
  - b) What weight is Eric?
  - c) Which two children are the same height?
  - d) Who is the lightest?
  - e) Who is the shortest?



- 2) This graph shows a relation between the temperature during the day and the sales of ice lollies on that day.
  - a) Suggest a connection between the temperature and the sale of ice lollies.
  - b) Use the chart to estimate the number of ice lollies which might be sold when the temperature reaches 35 degrees.
  - c) Estimate what the temperature was when thirteen ice lollies were sold?



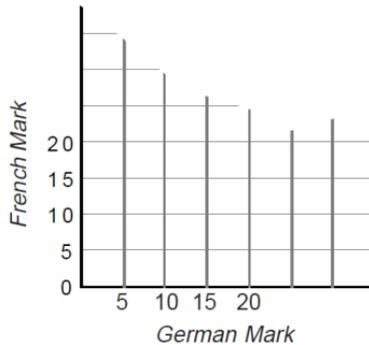
- 3) This scattergraph shows the prices which taxi cabs charge for fairly short distances.
  - a) Suggest a connection between the fare and the number of miles travelled.
  - b) Use the chart to give a reasonable guess at how far you could go in a taxi for £1.50.
  - c) How much do you think a 6 mile journey would cost?



- 4) Here is a table of exam marks (out of 50) from a modern languages department.

Name	Ali	Bo	Ed	Dan	Flo	Hal	Nan	Pen	Rab	Sid
German Mark	5	5	10	15	20	25	30	35	35	45
French Mark	5	10	10	20	15	30	30	40	40	45

- a) Draw a diagram similar to the one shown, using the same scale for each axis.



- b) Plot the information from the table to make a scatter diagram
- c) Describe some connections between the French marks and the German marks.
- d) Draw a line of best fit through the points.
- e) Use the graph to estimate what the German mark would be if the French mark was 35.
- f) One person seems to go against the trend. Who is it, and what makes you think that?
- 5) Brad and his pals record the number of take away meals they deliver each evening, and the time it takes them.

<b>Time (min)</b>	25	22	20	20	15	13	9	15	17	14
<b>No. of meals</b>	40	33	30	32	22	20	13	20	21	19

- a) Draw up a set of axes on squared paper, with time on the horizontal axis and number of meals on the vertical axis. Using suitable scales draw a scatter diagram.
- b) Estimate the time it would take Brad & Co. to deliver 28 meals.