1) The ages of 20 teachers are listed below.

22, 22, 24, 25, 27, 27, 28, 29, 29, 29, 34, 35, 41, 43, 44, 49, 55, 57, 58, 58

a) On the grid below, draw a box plot to show the information about the teachers.



b) What is the interquartile range of the ages of the teachers?

2) A warehouse has 60 employees working in it.

The age of the youngest employee is 16 years. The age of the oldest employee is 55 years.

The median age is 37 years. The lower quartile age is 29 years. The upper quartile age is 43 years.

On the grid below, draw a box plot to show information about the ages of the employees.



Terry drew a line of length 60 cm.

He asked some children to estimate the length of the line he had drawn.

He recorded their estimates.

The box plot gives some information about these estimates.



a) Write down the median of the children's estimates.

b) Write down the interquartile range of the children's estimates.

Terry then asked some adults to estimate the length of the line he had drawn. The table gives some information about the adults' estimates.

	Length
Lowest estimate	20 cm
Lower quartile	45 cm
Median	62 cm
Upper quartile	75 cm
Highest estimate	95 cm

- c) On the grid above, draw a box plot to show this information.
- d) Use the two box plots to compare the distribution of the children's estimates with the distribution of the adults' estimates.

1) The box plot gives information about the distribution of the weights of bags on a plane.



- a) Claude says that the heaviest bag weighs 24 kg. He is wrong. Explain why.
- b) Write down the median weight.
- c) Work out the interquartile range of the weights.

There are 240 bags on the plane.

- d) Work out the number of bags with a weight of 10 kg or less.
- 2) The box plots show the distribution of marks in a Science and Maths test for a group of students.





1) The incomplete box plot and table show some information about some marks.

- a) Use the information in the table to complete the box plot.
- b) Use the information in the box plot to complete the table.
- Kim measured the height, in cm, of each tomato plant in her greenhouse.
 She used the results to draw the box plot shown below.



- a) Write down the median height.
- b) Work out the interquartile range.
- c) Explain why the interquartile range may be a better measure of spread than the range.