![JustMaths logo]

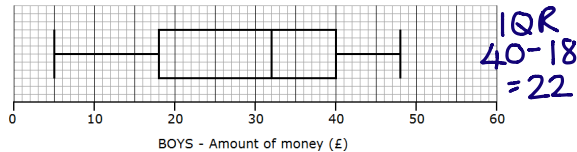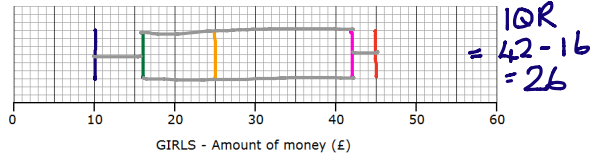## How to …

Some girls did a sponsored swim to raise money for charity. The table shows information about the amounts of money (£) the girls raised

Least amount of money (£)	10 ✓
Greatest amount of money (£)	45 ✓
Median	25 ✓
Lower quartile	16 ✓
Upper quartile	42 ✓

(a) On the grid draw a box plot for the information in the table.

IQR
= 42 - 16
= 26

GIRLS - Amount of money (£)

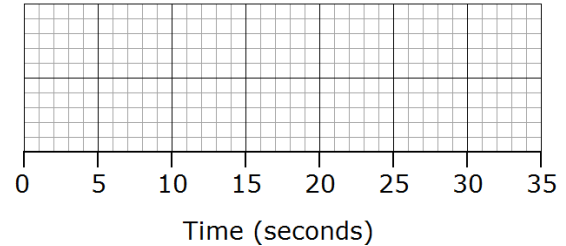

IQR
40 - 18
= 22

BOYS - Amount of money (£)

(b) Some boys also did the sponsored swim. The above box plot shows information about the amounts of money the boys raised. Compare the amounts of money the girls raised with the amounts of money the boys raised.

(i) The median for the boys was higher £32 compared to £25 ✓

(ii) The boys had a smaller interquartile range (£22) compared to £26 so is more consistent. **(4)**

Now have a go yourself …

1) The number of downloads from a music site during 15 time periods were as follows:

    5   5   7   12   16   20   21   23
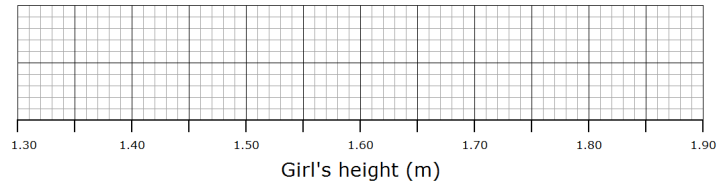   26   26   27   27   28   29   31

Time (seconds)

Draw a box plot for the above data.

2) Verity records the height of the girls in her class. The height of the shortest girl is 1.38 m. The height of the tallest girls is 1.81 m.

   The median height is 1.63 m and the lower quartile is 1.54m. The interquartile range is 0.14 m.

   Draw a box plot for this information

Girl's height (m)
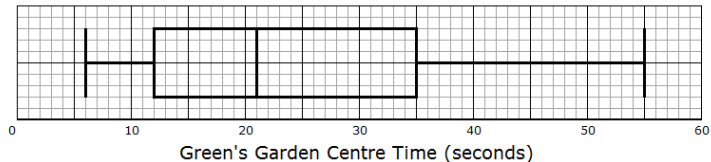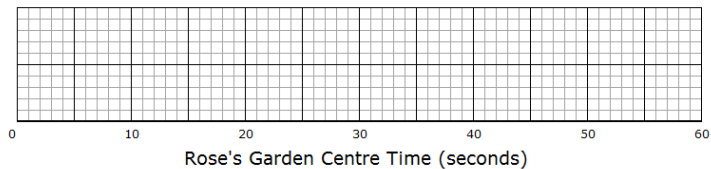
Exam Questions

Here are the times, in seconds, that 15 people waited to be served at Rose's garden centre.

  5 9 11   14 15 20 22 25 27 27 28 30   32 35 44

(a) On the grid, draw a box plot for this information

Rose's Garden Centre Time (seconds)

Green's Garden Centre Time (seconds)

The box plot above shows the distribution of the times that people waited to be served at Green's garden centre.

(b) Compare the distribution of the times that people waited at Rose's garden centre and the distribution of the times that people waited at Green's garden centre.

(6)

Ready to be marked ?

Checklist

☐ Answer checked

☐ Working out shown

Keywords

_____
_____
_____

Things to remember ...

_____
_____
_____

What went well ...

_____
_____
_____

Teacher comment ..