



EXAM PAPERS PRACTICE

GCSE OCR Math J560
Box Plots

Question Paper

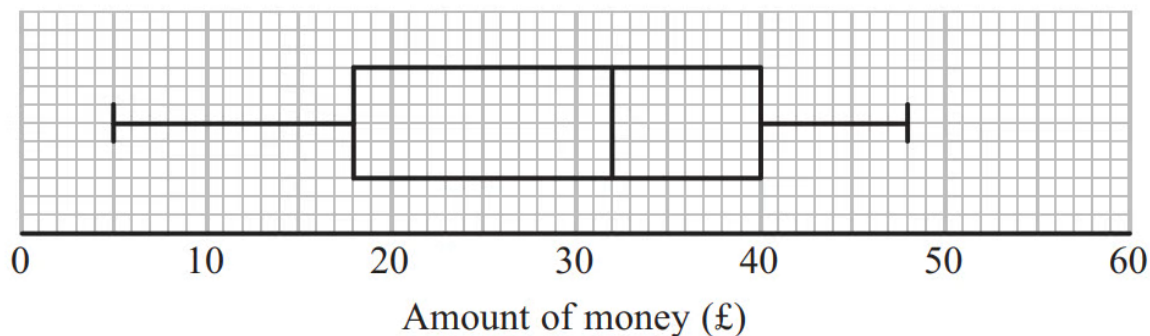
*"We will help you to
achieve A Star "*



Question 1

Some boys also did the sponsored swim.

The box plot shows information about the amounts of money (£) the boys raised.

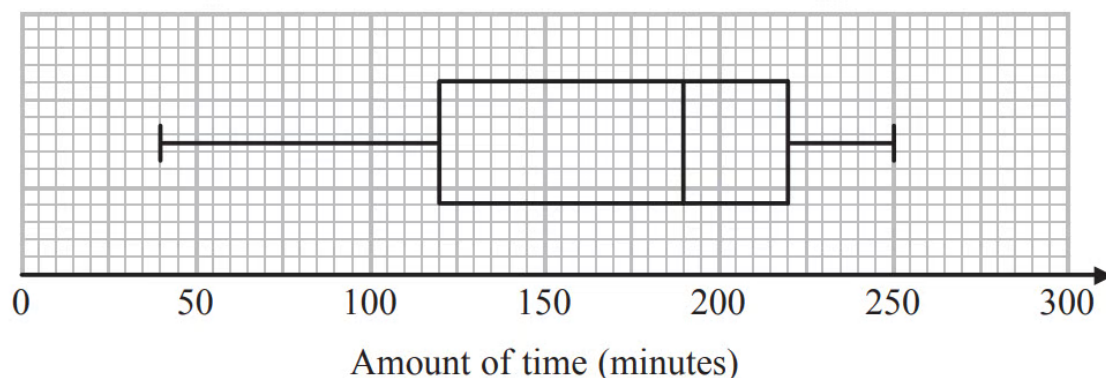


(b) Compare the amounts of money the girls raised with the amounts of money the boys raised.

[2 marks]

Question 2

The box plot below shows information about the amount of time the boys spent doing homework last week.

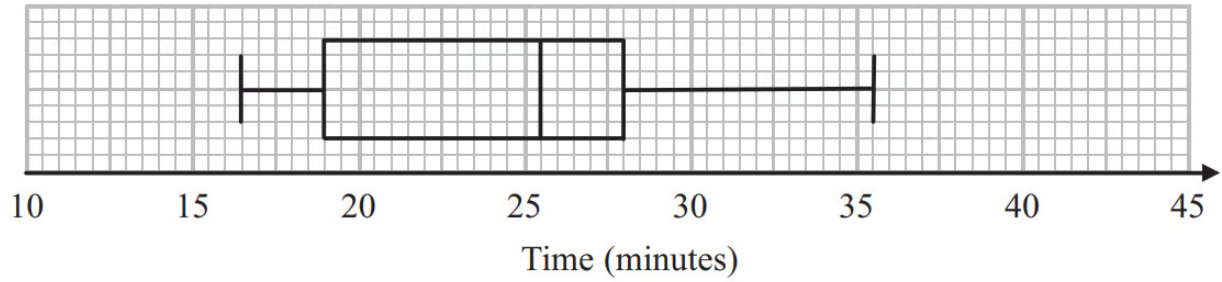


*(b) Compare the amount of time the girls spent doing homework with the amount of time the boys spent doing homework.

[2 marks]

Question 3

The box plot below shows information about the times, in minutes, some boys took to do the same jigsaw puzzle.



(b) Compare the distributions of the girls' times and the boys' times.

[2 marks]



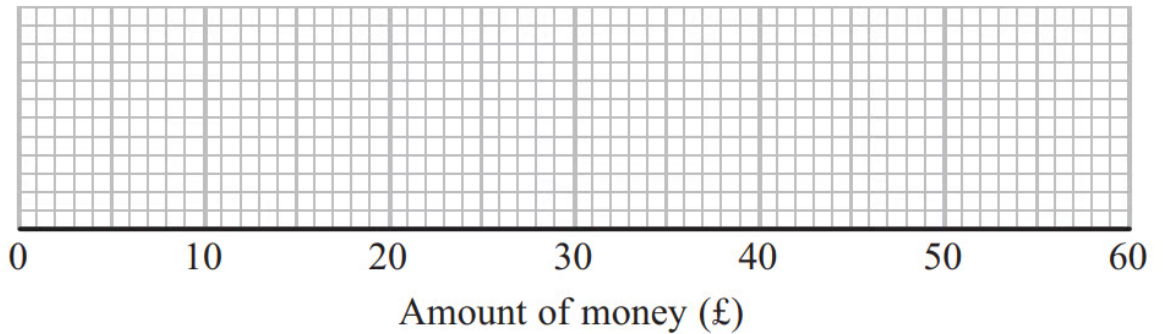
Question 4

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.



[2 marks]



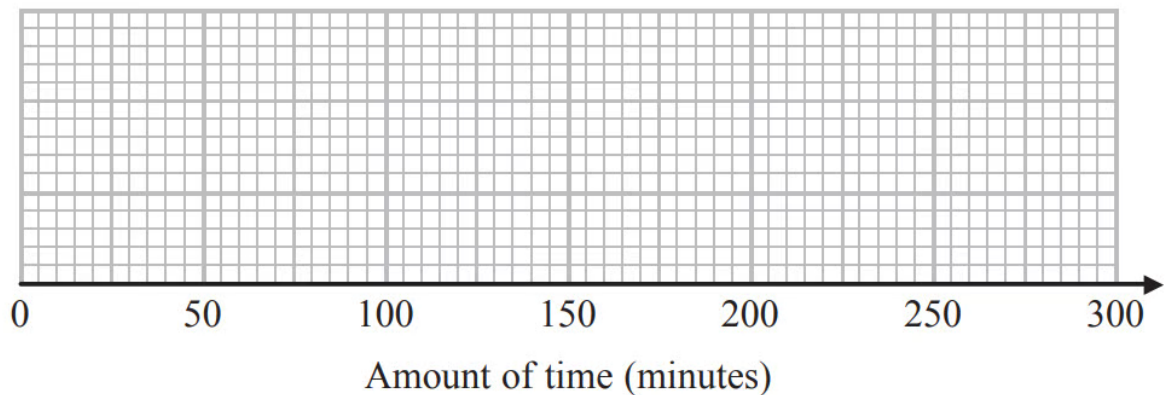
Question 5

The students in a class kept a record of the amount of time, in minutes, they spent doing homework last week.

The table shows information about the amount of time the girls spent doing homework last week.

	Minutes
Least amount of time	60
Range	230
Median	170
Lower quartile	100
Upper quartile	220

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



[2 marks]

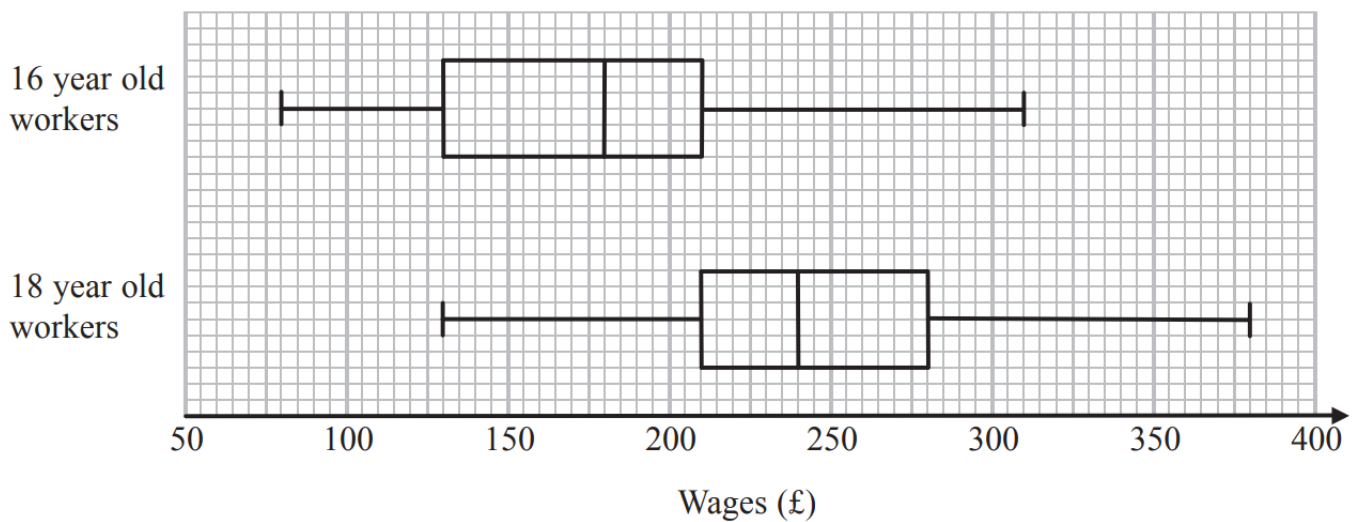
Question 6

(b) Work out the interquartile range.

[2 marks]

Question 7

The box plots give information about the wages of a group of 16 year old workers and a group of 18 year old workers.



*(a) Compare the distribution of the wages of the 16 year old workers with the distribution of the wages of the 18 year old workers.

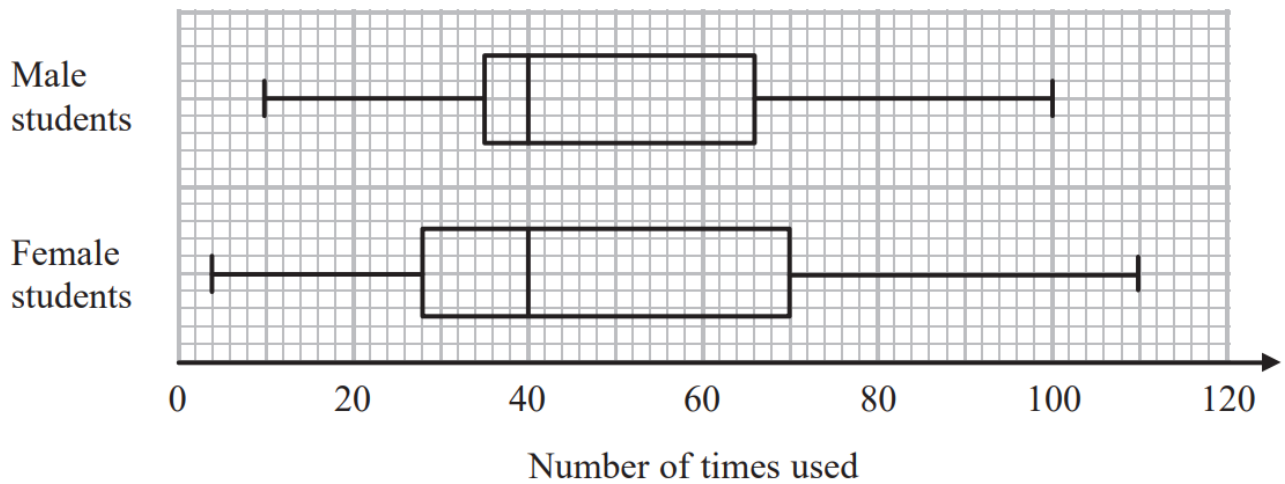
[3 marks]



Question 8

Some students were asked how many times they each used their mobile phones last week.

The box plots give information about the male students' answers and about the female students' answers.



Compare the two distributions represented by the box plots.

[3 marks]



Question 9

The table below shows information about the distribution of the amounts of money spent by some female students on their holidays.

	Smallest	Lower quartile	Median	Upper quartile	Largest
Money spent (£)	60	180	300	350	650

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

[2 marks]

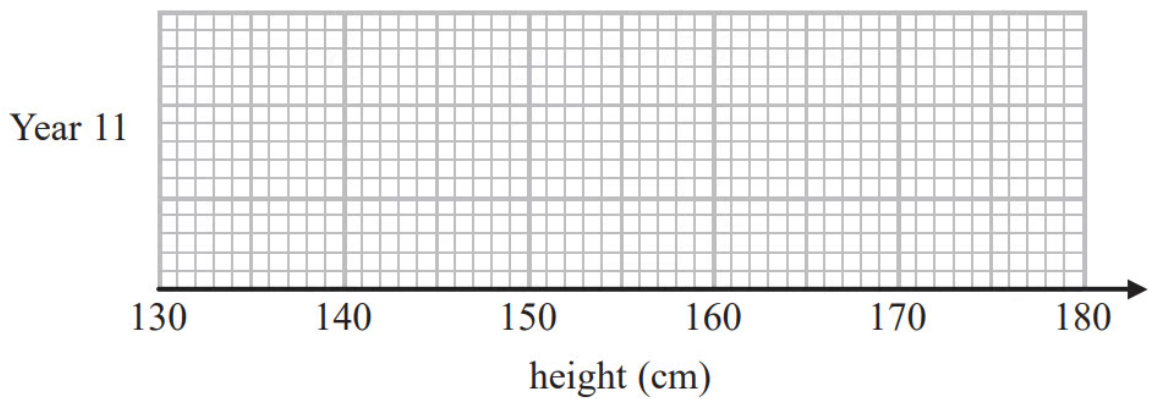


Question 10

The table shows information about the heights, in cm, of a group of Year 11 girls.

	height (cm)
least height	154
median	165
lower quartile	161
interquartile range	7
range	20

(a) Draw a box plot for this information.



[3 marks]

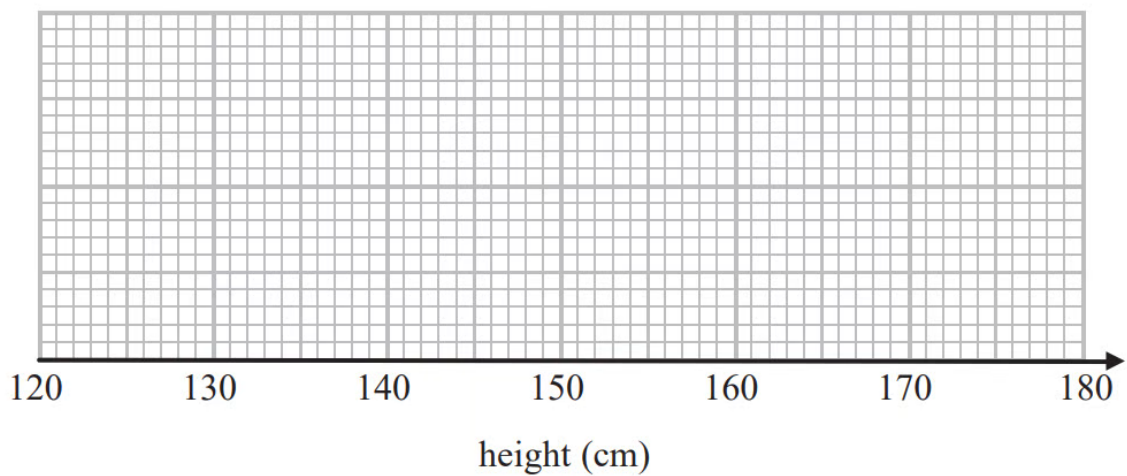


Question 11

The table gives some information about the heights of 80 girls.

Least height	133 cm
Greatest height	170 cm
Lower quartile	145 cm
Upper quartile	157 cm
Median	151 cm

(a) Draw a box plot to represent this information.



[3 marks]

Question 12

There were 80 players in Colin's sample.

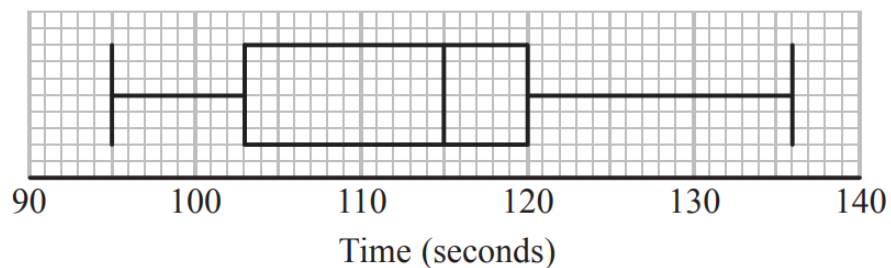
(b) Work out the number of players who ran a distance of more than 5.6 km.

[2 marks]

Question 13

Tom recorded the times, in seconds, some boys took to complete an obstacle course.

He drew this box plot for his results.



Tom also recorded the times some girls took to complete the obstacle course.

Here are the times, in seconds, for the girls.

99	101	103	106	108	109	110	110	111	112
113	114	115	115	117	120	124	125	132	

Compare the distribution of the times for the boys with the distribution of the times for the girls.

[4 marks]



Question 14

Sam plays in the same 15 games of basketball.

The median number of points Sam scored is 23

The interquartile range of these points is 12

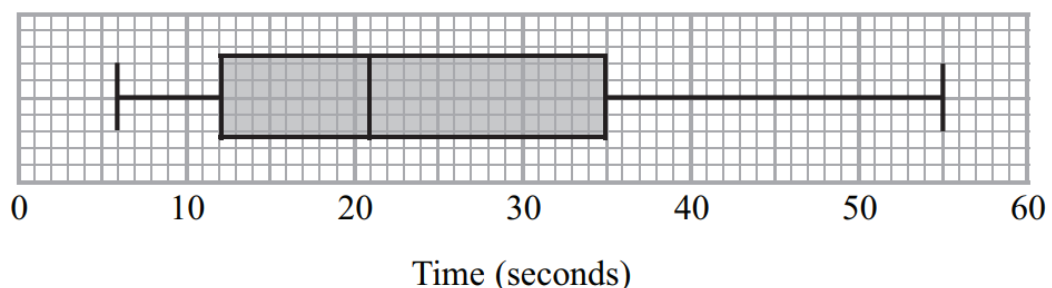
The range of these points is 20

- (b) Who is more consistent at scoring points, Sam or Ben?
You must give a reason for your answer.

[2 marks]

Question 15

The box plot below 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.

[2 marks]