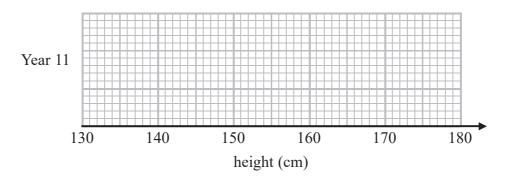
1 The table shows information about the heights, in cm, of a group of Year 11 girls.

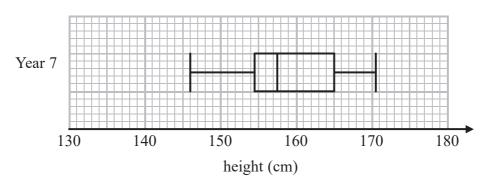
	height (cm)
least height	154
median	165
lower quartile	161
interquartile range	7
range	20

(a) Draw a box plot for this information.



(3)

The box plot below shows information about the heights, in cm, of a group of Year 7 girls.



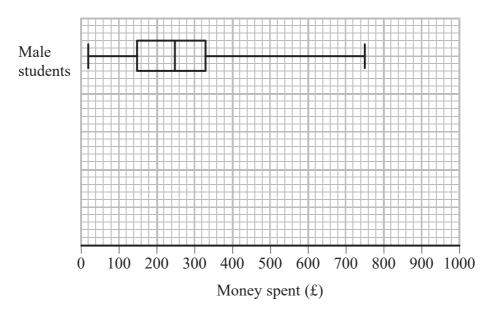
(b) Compare the distribution of heights of the Year 7 girls with the distribution of heights of the Year 11 girls.

**(2)** 

(Total for Question 1 is 5 marks)

Summer 2017 Paper 3 Q9

2 The box plot shows information about the distribution of the amounts of money spent by some male students on their holidays.



(a) Work out the interquartile range for the amounts of money spent by these male students.

£	
	(2)

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)** 

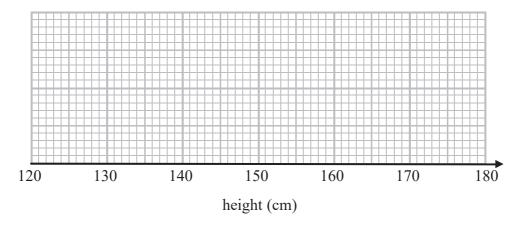
"The box plots show that the fem	nale students spent more money than the male students.	"
c) Is Chris correct?  Give a reason for your answer.		
	(1)	
	(Total for Question 2 is 5 marks)	

<u>Summer 2018 Paper 1 Q10</u>

3 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)

(b) Work out an estimate for the number of these girls with a height between 133 cm and 157 cm.

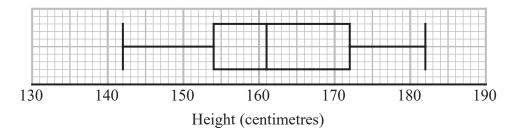
(2)

(Total for Question 3 is 5 marks)

4 Aisha recorded the heights, in centimetres, of some girls. She used her results to work out the information in this table.

Least height	142 cm
Lower quartile	154 cm
Interquartile range	17 cm
Median	162 cm
Range	40 cm

Aisha drew this box plot for the information in the table. The box plot is **not** fully correct.

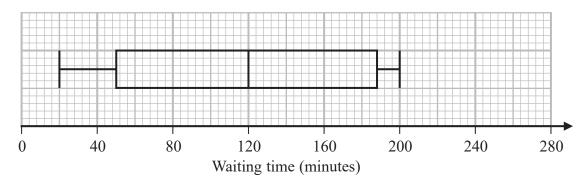


Write down the two things Aisha should do to make the box plot fully correct.

1
2
(Total for Question 4 is 2 marks)

Summer 2021 Paper 2 Q9

The box plot shows information about the length of time, in minutes, some people waited to see a doctor at a hospital on Monday.



(a) Work out the interquartile range of the information in the box plot.

 		minutes
	(2)	

Becky says, "50% of the people waited for at least 2 hours."

(b) Is Becky correct? Explain why.

(1)

The table gives information about the length of time, in minutes, some people waited to see a doctor at the same hospital on Tuesday.

	Waiting time (minutes)
Shortest time	20
Lower quartile	50
Median	100
Upper quartile	140
Longest time	210

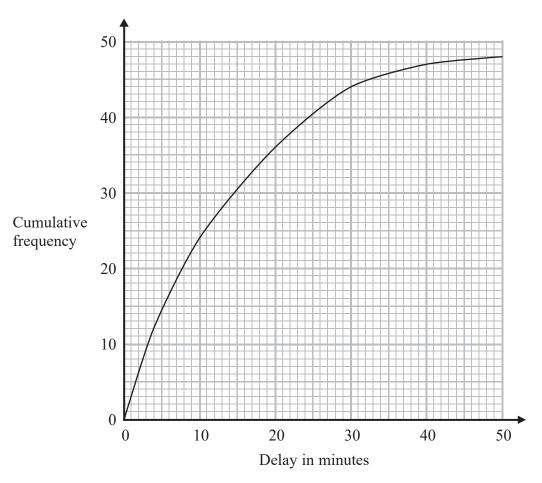
Becky was asked to compare the distribution of the lengths of times people waited on Monday with the distribution of the lengths of times people waited on Tuesday.

	(Total for Question 5 is 4 marks)
	(1)
(c) Give <b>one</b> reason why Becky may be wrong.	
People had to wait longer on Tuesday than or	ii ivioliday.

Autumn 2018 Paper 1 Q9

**6** The times that 48 trains left a station on Monday were recorded.

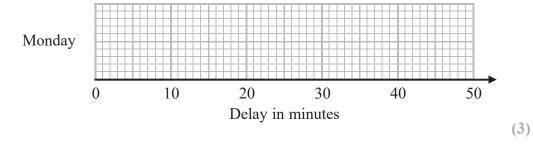
The cumulative frequency graph gives information about the numbers of minutes the trains were delayed, correct to the nearest minute.



The shortest delay was 0 minutes.

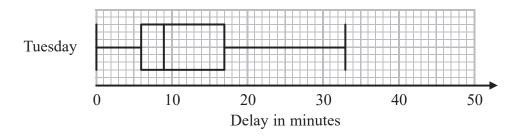
The longest delay was 42 minutes.

(a) On the grid below, draw a box plot for the information about the delays on Monday.



48 trains left the station on Tuesday.

The box plot below gives information about the delays on Tuesday.

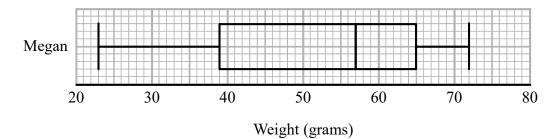


on Tuesday.	
	(2)
lary says,	
"The longest delay on Tuesday was 33 minutes.	
This means that there must be some delays of between 25 minut	es and 30 minutes."
e) Is Mary right? You must give a reason for your answer.	
Tou must give a reason for your answer.	
	(1)
(Total for	(1) Overtion 6 is 6 morks
(Total for	Question 6 is 6 marks)
(Total for	

Autumn 2019 Paper 2 Q11

7 Megan grows potatoes.

The box plot below shows information about the weights of Megan's potatoes.



Megan says that half of her potatoes weigh less than 50 grams each.

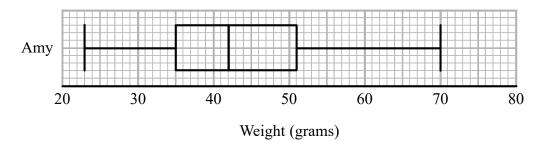
(a) Is Megan correct?

Give a reason for your answer.

(1)

Amy also grows potatoes.

The box plot below shows information about the weights of Amy's potatoes.



(b)	Compare the	distribution	of the	weights	of Megan	's potatoes	with the	distributio	n of
	the weights o	f Amy's pot	atoes.						

**(2)** 

(Total for Question 7 is 3 marks)

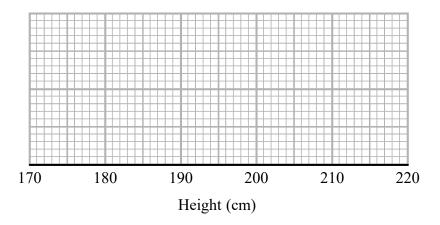
Autumn 2019 Paper 3 Q12

8 The stem and leaf diagram shows information about the heights, in cm, of 23 sunflowers.

17	3	4	9					
18	6	8	8					
19	0	0	1	4	6	7	8	
20	1	4	7	7	9	9		
21	4	8	8	9				

Key: 17|3 represents 173 cm

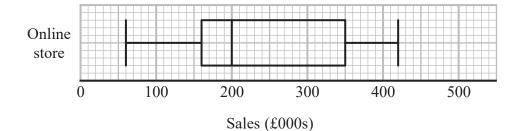
On the grid, draw a box plot for this information.



(Total for Question 8 is 3 marks)

<u>Summer 2022 Paper 2 Q10</u>

9 The box plot shows information about the sales, in thousands of pounds (£000s), of an online store each month.



Andrew says,

"Three quarters of the given data lies between 160 000 and 350 000 because these are the values of the lower quartile and the upper quartile."

Andrew is wrong.

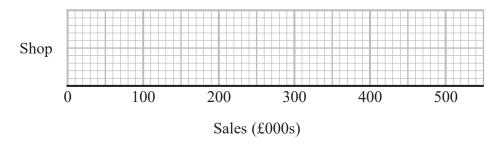
(a)	Exp.	lain	whv.

(1)

The table shows information about the sales, in £000s, in a shop each month.

	Sales (£000s)	
least value	30	
lower quartile	80	
median	170	
upper quartile	260	
greatest value	350	

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



**(2)** 

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sales in the shop.		
		(2)
	(Total	for Question 9 is 5 marks)