

lots of DATA 5 PLUS

What is WRONG with this frequency polygon?

Time to solve	Frequency
0 < t ≤ 10	2
10 < t ≤ 20	5
20 < t ≤ 30	8
30 < t ≤ 40	3
40 < t ≤ 50	2

Twenty students solved a crossword puzzle.
A frequency polygon is drawn.

Length of snake (cm)	Frequency
0 < t ≤ 10	10
10 < t ≤ 20	8
20 < t ≤ 30	11
30 < t ≤ 40	7
40 < t ≤ 50	4

Some snakes are measured.
Draw a Frequency Polygon.

Time to solve (mins)	Boys
0 < t ≤ 10	7
10 < t ≤ 20	11
20 < t ≤ 30	20
30 < t ≤ 40	58
40 < t ≤ 50	4

Some boys and girls solved the same logic puzzle.
The frequency polygon for girls is drawn.
Draw the boys frequency polygon and compare the data.

Using this frequency table draw the cumulative frequency curve

Time	Frequency
0 ≤ t < 10	5
10 ≤ t < 20	8
20 ≤ t < 30	16
30 ≤ t < 40	30
40 ≤ t < 50	17
50 ≤ t < 60	4

Using this frequency table draw the cumulative frequency curve

Length	Frequency
0 ≤ d < 5	0
5 ≤ d < 10	4
10 ≤ d < 15	14
15 ≤ d < 20	26
20 ≤ d < 25	13
25 ≤ t < 30	3

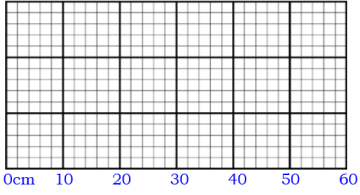
Using this cumulative frequency curve. Fill in the frequency table

Time	Frequency
0 ≤ t < 10	
10 ≤ t < 20	
20 ≤ t < 30	
30 ≤ t < 40	
40 ≤ t < 50	
50 ≤ t < 60	

Using this cumulative frequency curve.
Find the median.
the IQR?

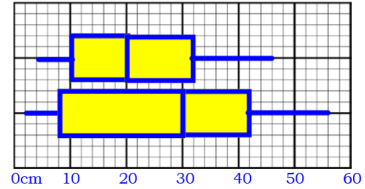
This cumulative frequency curve shows the length of journey to school.
What was the shortest length of journey?
How many travelled less than 10 miles?
How many travelled more than 25 miles?

Draw the box plot



Lowest value	4
Lower Quartile	16
Median	24
Upper Quartile	
Highest value	54
IQR	16

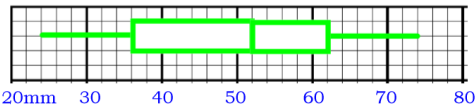
River A



These are 2 box plots that show the lengths of fish in 2 different rivers.
Compare the lengths of the fish.

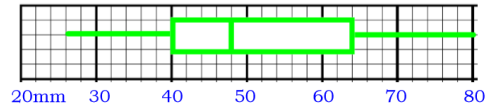
River B

True or False?

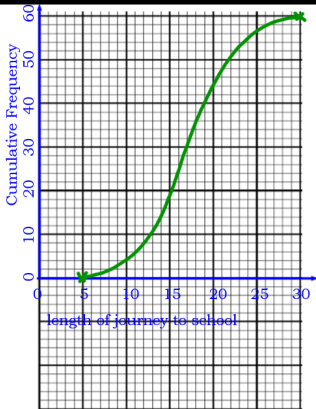


- Q1 50% are longer than 51mm
- Q2 The longest is 74mm
- Q3 The Upper Quartile is 62mm.

True or False?

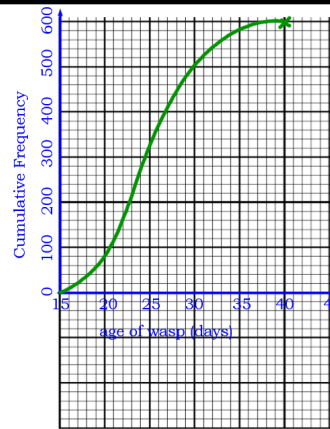


- Q1 The longest 25% are longer than 66mm
- Q2 The shortest is 26mm
- Q3 The IQR is 22mm



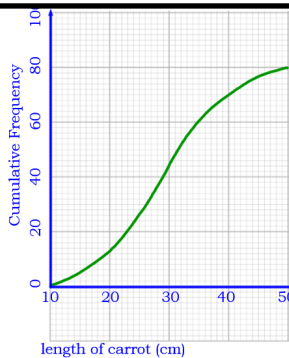
Using this cumulative frequency curve find
the median?
the IQR?

Draw the box plot for this curve below



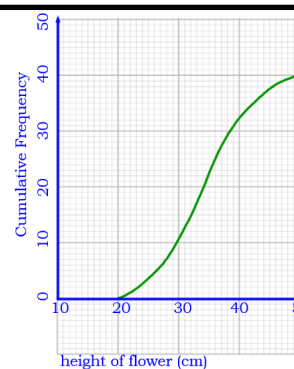
Using this cumulative frequency curve find
the median?
the IQR?

Draw the box plot for this curve below



Using this cumulative frequency curve find
the median?
the IQR?

Draw the box plot for this curve below



Using this cumulative frequency curve find
the median?
the IQR?

Draw the box plot for this curve below