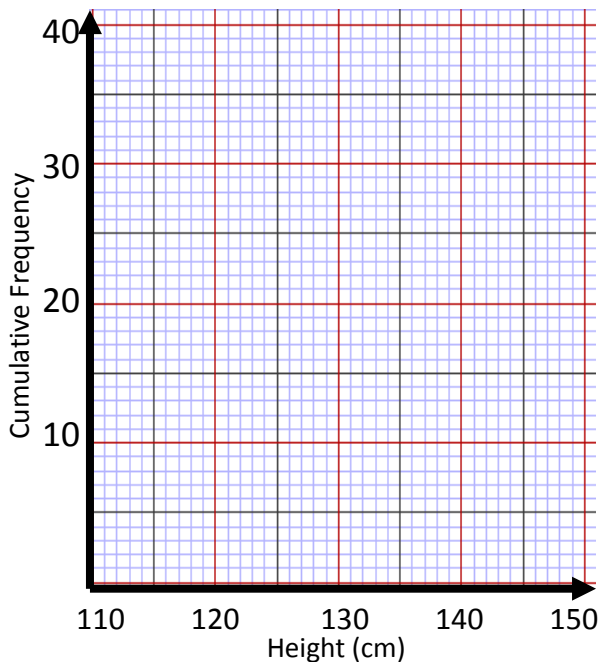


# Box plots

## ROK- Retention of Knowledge

Height (cm)	Frequency	Cumulative Frequency
$110 < h \leq 120$	12	
$120 < h \leq 130$	14	
$130 < h \leq 140$	10	
$140 < h \leq 150$	4	



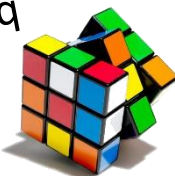
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Minimum	
Lower Quartile	
Median	
Upper Quartile	
Maximum	

Unscramble the keywords.  
(Define if you can)

## Literacy

atlumucive  
munimim  
yunferceq  
ganer

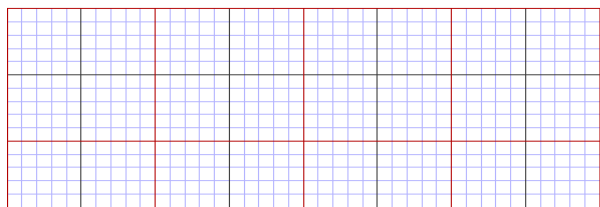


Draw a boxplot and calculate the IQR for each set of data.

## Skill 1

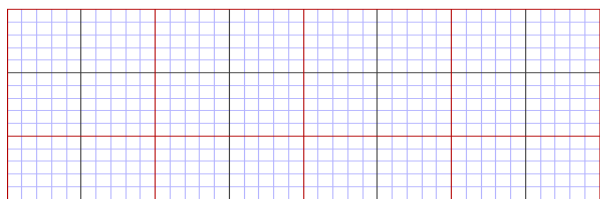
2012	Maths Scores
Minimum Value	24
Lower Quartile	36
Median	50
Upper Quartile	94
Maximum value	98

What is the IQR value?



2013	Maths Scores
Minimum Value	38
Lower Quartile	58
Median	60
Upper Quartile	72
Maximum value	86

What is the IQR value?

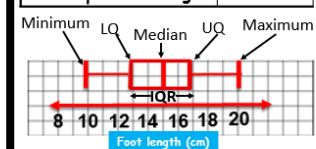


## Stretch 1

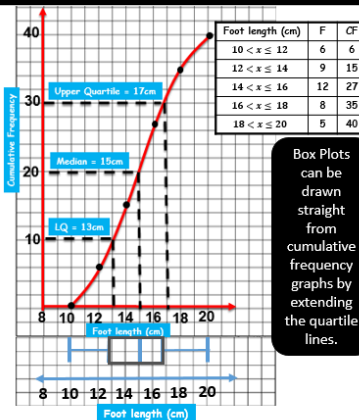
Describe what you notice from looking at the box plots for Maths Scores 2012 and Maths Scores 2013 in skill 1.

## Memory: Box Plots

Minimum Value	10cm
Lower Quartile (LQ)	13cm
Median	15cm
Upper Quartile (UQ)	17cm
Maximum Value	40cm
Interquartile Range	$17 - 13 = 4$



Always remember a scale and to label the axis.

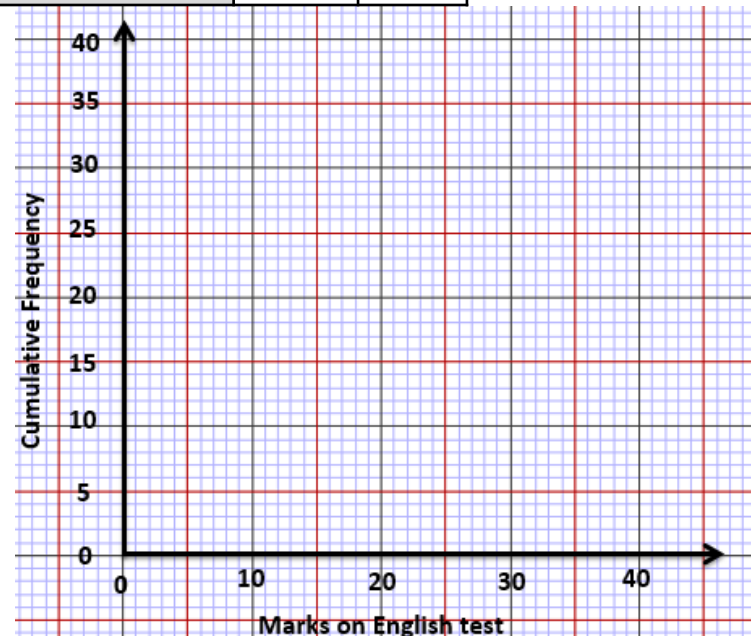


Box Plots can be drawn straight from cumulative frequency graphs by extending the quartile lines.

Marks on an English Test	F	CF
$0 \leq m < 10$	4	
$10 \leq m < 20$	7	
$20 \leq m < 30$	13	
$30 \leq m < 40$	6	

Draw a box plot from the cumulative frequency graph.

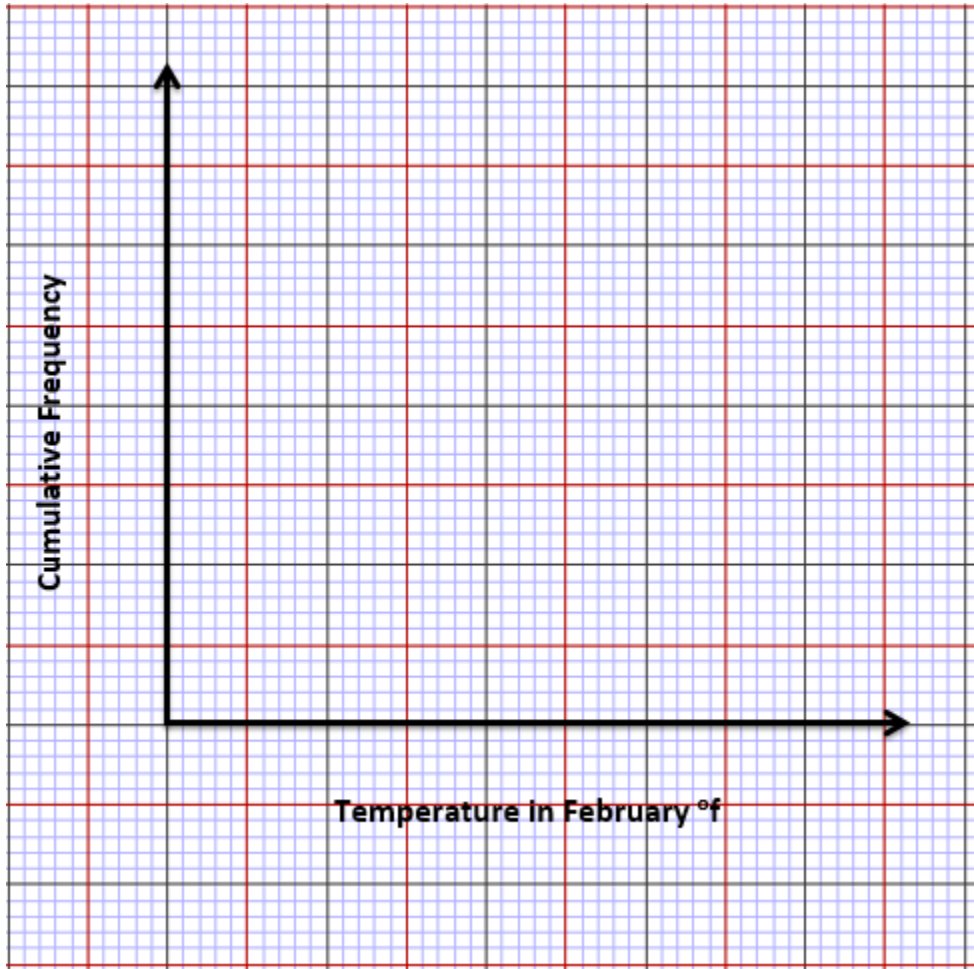
## Skill 2



Draw a box plot from the cumulative frequency graph

Skill 2

Temperature in February °f	Frequency	Cumulative Frequency
$35 \leq t < 45$	12	
$45 \leq t < 55$	11	
$55 \leq t < 65$	4	
$65 \leq t < 75$	1	



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Given the box plot draw the cumulative frequency graph

Stretch 2

The school conducts a survey on pupils marks on a piece of English homework. 80 people were involved.

