

Timester Challenge Cumulative Frequency - Drawing

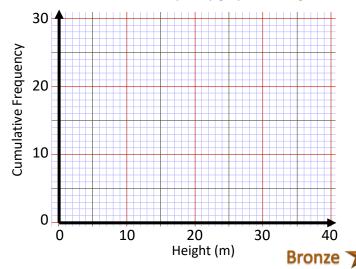


The table shows the height of 30 trees.

a) Construct a cumulative frequency table

Height (m)	Frequency	Height (cm)	CF
$0 < h \le 5$	3	$0 < h \le 5$	3
$5 < h \le 10$	6	$0 < h \le 10$	
$10 < h \le 15$	12	$0 < h \le 15$	
$15 < h \le 20$	7	$0 < h \le 20$	
$20 < h \le 25$	2	$0 < h \le 25$	

b) Draw the cumulative frequency graph on the grid below.

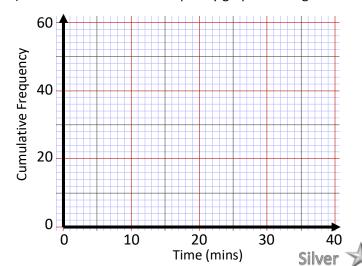


The table shows 50 peoples times in a fun run..

a) Construct a cumulative frequency table

Time (mins)	Frequency	
$10 < t \le 15$	2	
$15 < t \le 20$	6	
$20 < t \le 25$	14	
$25 < t \le 35$	18	
$35 < t \le 40$	10	

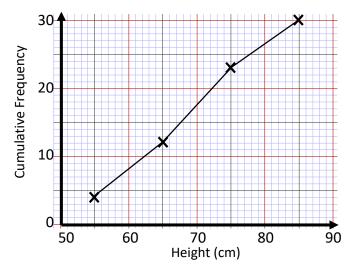
b) Draw the cumulative frequency graph on the grid below.



The table show the height of 30 primary students.

Height (cm)	Frequency	
$50 < h \le 60$	4	
$60 < h \le 70$	8	
$70 < h \le 80$	12	
80 < h ≤ 90	6	

Ryan drew this cumulative frequency graph to represent the information.



Make **two** criticisms of Ryan's Graph.





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Cumulative Frequency - Drawing

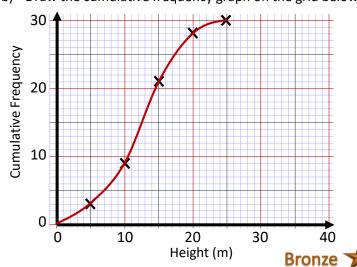


The table shows the height of 30 trees.

a) Construct a cumulative frequency table

Height (m)	Frequency	Height (cm)	CF
$0 < h \le 5$	3	$0 < h \le 5$	3
$5 < h \le 10$	6	$0 < h \le 10$	9
$10 < h \le 15$	12	$0 < h \le 15$	21
$15 < h \le 20$	7	$0 < h \le 20$	28
$20 < h \le 25$	2	$0 < h \le 25$	30

Draw the cumulative frequency graph on the grid below.

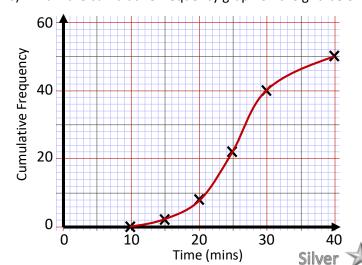


The table shows 50 peoples times in a fun run..

a) Construct a cumulative frequency table

Time (mins)	Frequency	Time (mins)	CF
$10 < t \le 15$	2	$10 < t \le 15$	2
$15 < t \le 20$	6	$10 < t \le 20$	8
$20 < t \le 25$	14	$10 < t \le 25$	22
$25 < t \le 35$	18	$10 < t \le 35$	40
$35 < t \le 40$	10	$10 < t \le 40$	50

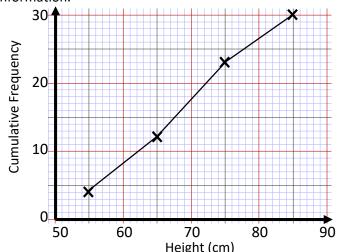
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Height (cm)	Frequency	
$50 < h \le 60$	4	
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$80 < h \le 90$	6	

Ryan drew this cumulative frequency graph to represent the information.



Make **two** criticisms of Ryan's Graph.

He used straight lines instead of a smooth curve. He has plotted the points at the mid point.



