



# Timester Challenge

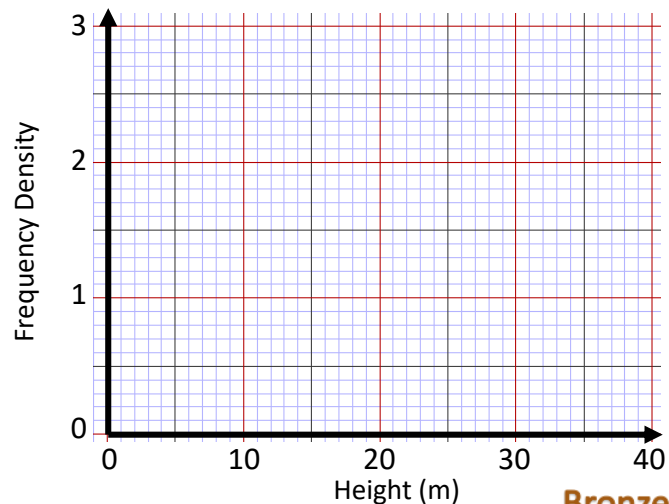
## Histograms - Drawing



The table shows the height of 30 trees.

Height (m)	Frequency
$0 < h \leq 5$	3
$5 < h \leq 10$	5
$10 < h \leq 20$	13
$20 < h \leq 30$	7
$30 < h \leq 35$	2

Draw the histogram on the grid below.

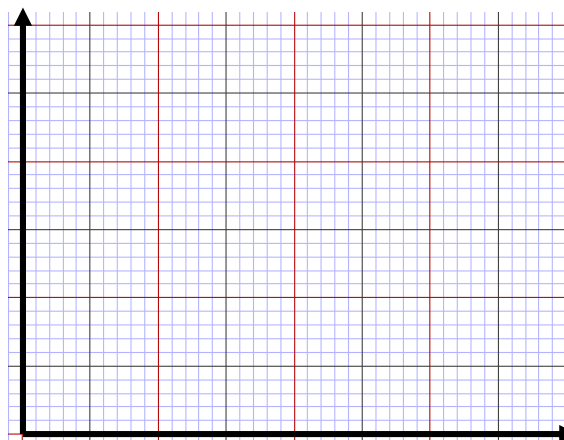


Bronze ★

The table shows 50 peoples times in a fun run.

Time (mins)	Frequency
$5 < t \leq 15$	2
$15 < t \leq 20$	6
$20 < t \leq 25$	14
$25 < t \leq 35$	18
$35 < t \leq 40$	10

Draw the histogram on the grid below.

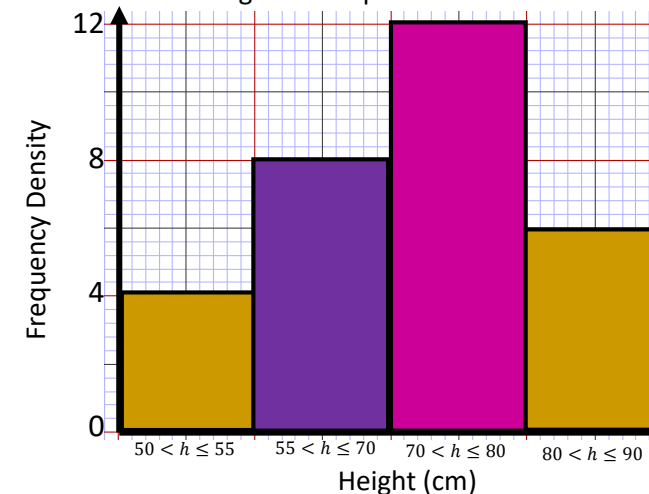


Silver ★

The table show the height of 30 primary students.

Height (cm)	Frequency
$50 < h \leq 55$	4
$55 < h \leq 70$	8
$70 < h \leq 80$	12
$80 < h \leq 90$	6

Jessica drew a histogram to represent the information.



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

Gold ★



Answers

# Timester Challenge

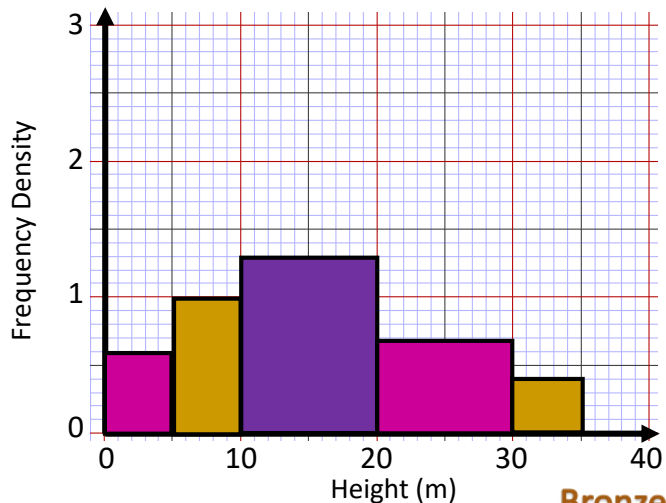
## Histograms - Drawing



The table shows the height of 30 trees.

Height (m)	Frequency	$Fd$
$0 < h \leq 5$	3	$3 \div 5 = 0.6$
$5 < h \leq 10$	5	$5 \div 5 = 1$
$10 < h \leq 20$	13	$13 \div 10 = 1.3$
$20 < h \leq 30$	7	$7 \div 10 = 0.7$
$30 < h \leq 35$	2	$2 \div 5 = 0.4$

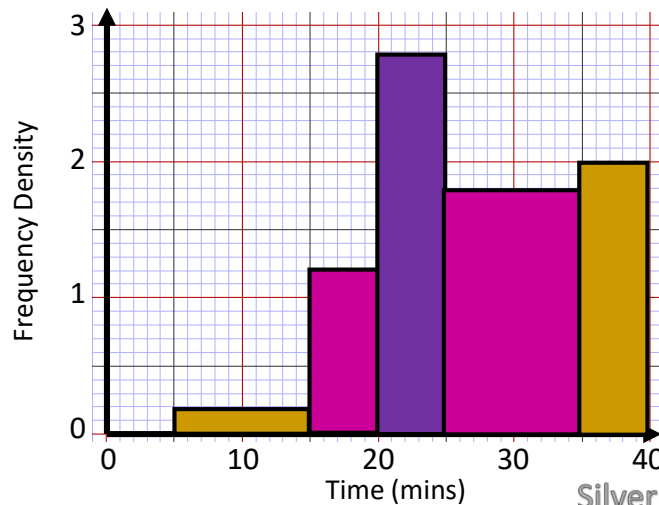
Draw the histogram on the grid below.



The table shows 50 peoples times in a fun run.

Time (mins)	Frequency	$Fd$
$5 < t \leq 15$	2	0.2
$15 < t \leq 20$	6	1.2
$20 < t \leq 25$	14	2.8
$25 < t \leq 35$	18	1.8
$35 < t \leq 40$	10	2

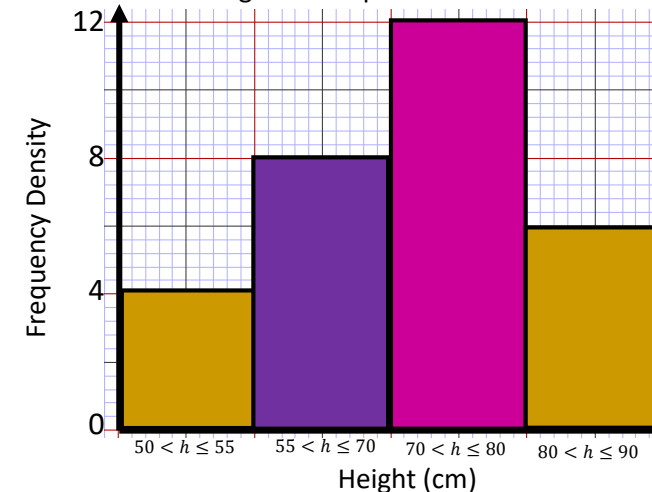
Draw the histogram on the grid below.



The table show the height of 30 primary students.

Height (cm)	Frequency
$50 < h \leq 55$	4
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Jessica drew a histogram to represent the information.



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

- Plotted frequency instead of calculating and plotting the frequency density. ( $frequency \div class\ width$ )
- She has used inequalities to represent the categories on the height (x) axis. This axis should have a scale and the bars should be different widths.

Gold ★