Cumulative frequency graphs

Exit ticket ANSWERS Name _____

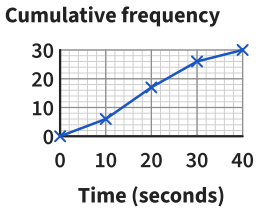
1 Complete the cumulative frequency column of the table.

Time, t (s)	Frequency	Cumulative frequency
$0 < t \leq 10$	6	6
$10 < t \leq 20$	11	17
$20 < t \leq 30$	9	26
$30 < t \leq 40$	4	30

2 Which point is plotted for $10 < t \leq 20$?

(20, 17)

3 Draw the cumulative frequency graph for question 1 on the grid.



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Cumulative frequency
30
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10
0
0 10 20 30 40
Time (seconds)

The Maths Habit

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Exit ticket Cumulative frequency graphs

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6, 17, 26, 30

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$20 < t \leq 30$	9	26
$30 < t \leq 40$	4	30

TESTS The running total of the frequencies

LOOK FOR *6, 11, 9, 4* the frequencies copied across: add each one to the total so far

6, 17, 20, 13 each frequency added to the one before it, not to the running total

FIX IT

The frequencies are 7, 12 and 8. Work out the cumulative frequencies. *7, 19, 27*

2 **Which point is plotted for $10 < t \leq 20$?**

(20, 17)

TESTS Plotting at the upper bound

LOOK FOR *(15, 17)* plotted at the middle of the class: the 17 are all 20 or less

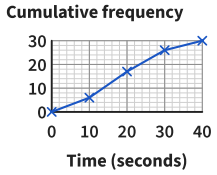
(20, 11) plotted the frequency, not the running total

FIX IT

The class $50 < m \leq 60$ has a cumulative frequency of 17. Which point is plotted? *(60, 17)*

3 **Draw the cumulative frequency graph for question 1 on the grid.**

from (0, 0) through (10, 6), (20, 17), (30, 26), (40, 30)



TESTS The whole graph: start at 0, plot at the top of each class, join

LOOK FOR *points at 5, 15, 25, 35* plotted at the middle of each class

no point at (0, 0) the graph starts at the lower bound of the first class, at 0

FIX IT

Classes $20 < t \leq 30$, $30 < t \leq 40$ and $40 < t \leq 50$ have frequencies 5, 9 and 4. Which points do you plot? *(20, 0), (30, 5), (40, 14), (50, 18)*