

Spicy Question #44



Calculator allowed

Some students were asked how many minutes they spent on their maths homework. The data is shown in the table below.

Time (minutes)	Cumulative Frequency
$0 \leq t < 20$	x
$20 \leq t < 40$	$x + 10$
$40 \leq t < 60$	$x^2 + x + 10$
$60 \leq t < 80$	$x^2 + x + 10 + 3y$

The number of students who took between 0 and 20 minutes is equal to $\frac{1}{15}$ of all students asked.

A teacher estimated the mean time to be exactly 54 minutes.

Work out two possible values for y .

SUBMISSION DEADLINE 22/2/23 – 7PM

Video
Solution 



All submissions to be emailed to 1stclassmaths@gmail.com

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