

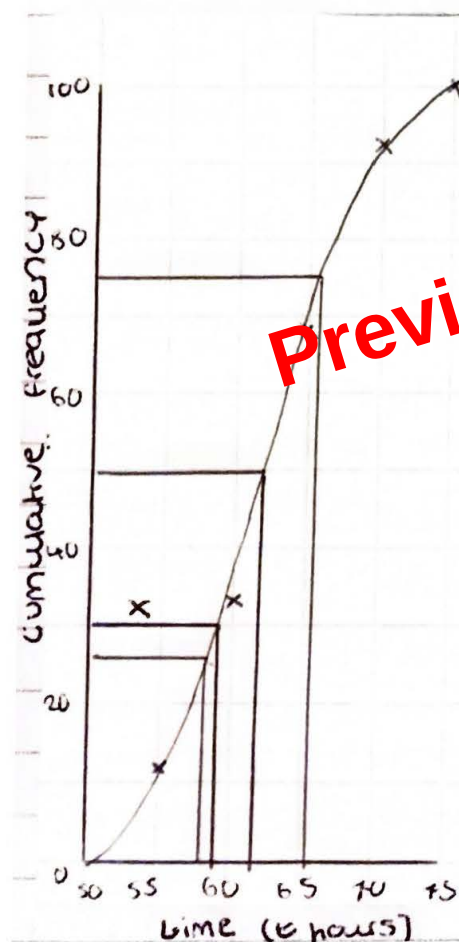
Practice

A company tests lightbulbs. The table shows the number of hours the lightbulbs lasted. Complete the cumulative frequency table.

Time (t hours)	Frequency
$50 \leq t < 55$	12
$55 \leq t < 60$	21
$60 \leq t < 65$	36
$65 \leq t < 70$	23
$70 \leq t < 75$	8

Time (t hours)	Frequency
$50 \leq t < 55$	12
$55 \leq t < 60$	33
$60 \leq t < 65$	69
$65 \leq t < 70$	92
$70 \leq t < 75$	100

Plot your results on a cumulative frequency graph.



b) Use your graph to find an estimate for the interquartile range.

$$\text{Median} = 62$$

$$\text{LQ} = 59.5 \checkmark$$

$$\text{HQ} = 66 \checkmark$$

$$\text{IQR} = 66 - 59.5 = 6.5 \checkmark$$

Preview from Notesale.co.uk
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