SUBTOPIC 8.2 : MEASURES OF DISPERSION

Calculate the cumulative frequency , then find the range and interquartile range of each of the following sets of data.

1.

Time (s)	1	2	3	4	5
Frequency	2	3	2	5	4
Cumulative frequency	2				

i)Range $=$ Largest value $-$ Smallest value $=$ ☐ $-$ ☐ $=$ ☐

ii)Interquartile range $= Q_3 - Q_1 =$ ☐ $-$ ☐ $=$ ☐

2.

Score	10	11	12	13	14	15
Number of pupils	3	10	13	4	8	6
Cumulative frequency	3					44

i)Range $=$ Largest value $-$ Smallest value $=$ ☐ $-$ ☐ $=$ ☐
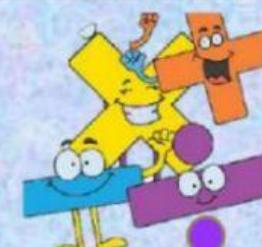
ii)Interquartile range $= Q_3 - Q_1 =$ ☐ $-$ ☐ $=$ ☐

> Cumulative frequency = determined by adding its frequency and all the frequencies before it.

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4