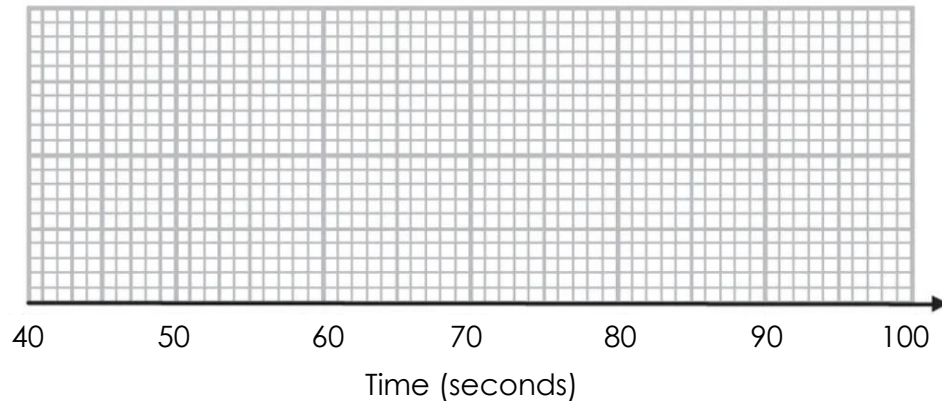


1. The table gives some information about the times taken (in seconds) by 100 students to complete a puzzle.

Least time	45
Greatest time	92
Lower quartile	60
Upper quartile	78
Median	68

a) Draw a box plot to represent this information.



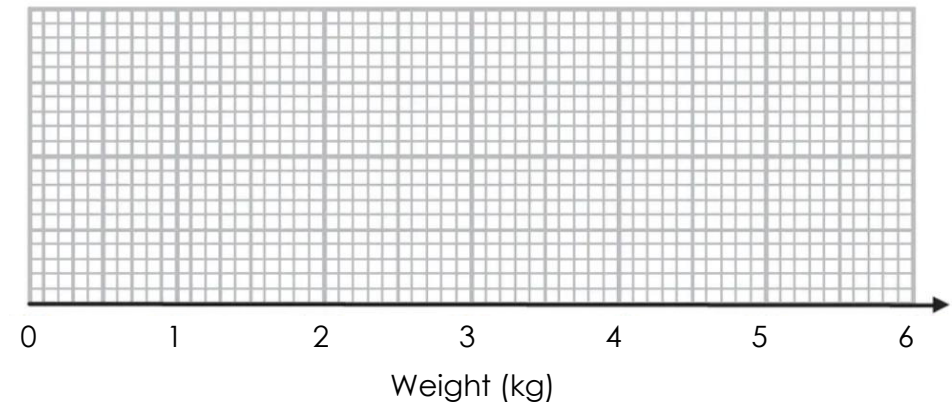
b) Work out an estimate for the number of students who took between 45 seconds and 78 seconds to complete the puzzle.

5 marks

2. The table gives some information about the weights of 60 watermelons in a supermarket.

Least time	1.2
Range	3.6
Lower quartile	2.2
Interquartile range	1.9
Median	3.0

a) Draw a box plot to represent this information.



b) Work out an estimate for the number of watermelons weighing between 2.2 kg and 4.8 kg.

5 marks

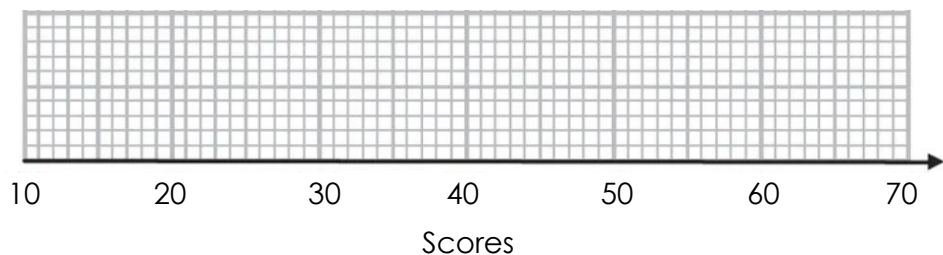
VIDEO LESSON



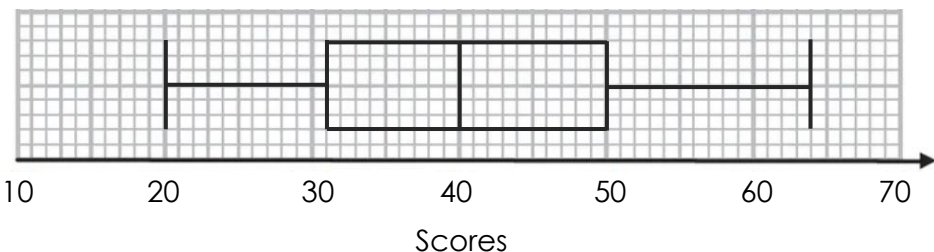
3. Two classes, Class A and Class B, sat the same history exam. The table gives some information about the scores of Class A.

Minimum	21
Lower quartile	33
Median	48
Interquartile range	21
Range	47

a) Draw a box plot to represent this information.



The box plot below shows information about the scores of Class B



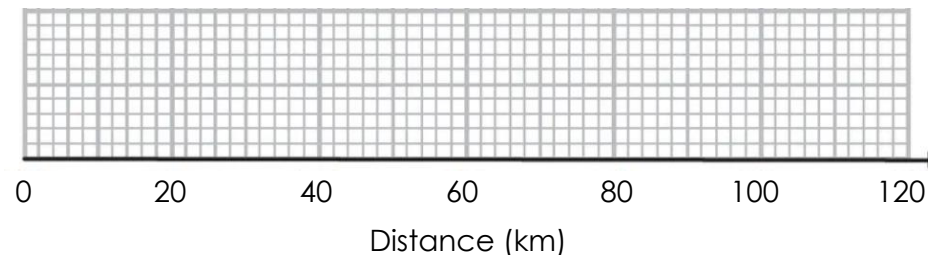
b) Compare the distributions of the scores of Class A and Class B.

5 marks

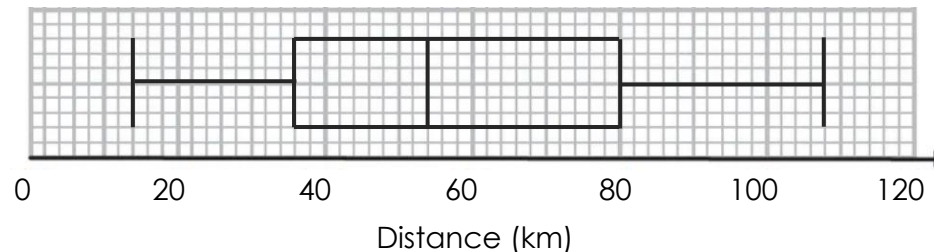
4. Two cycling clubs, Club Red and Club Blue, record the distances (in km) their members cycled. The table gives information by Club Red.

Minimum	6
Lower quartile	42
Median	58
Interquartile range	30
Range	106

a) Draw a box plot to represent this information.



The box plot below shows information about the scores of Club Blue.



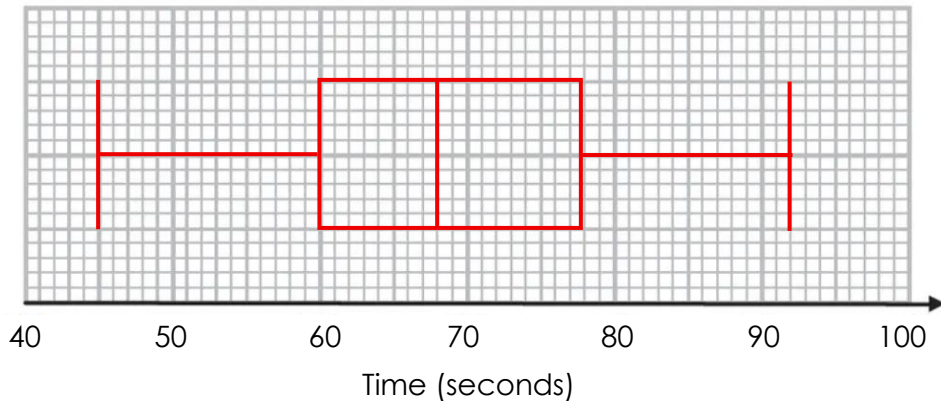
b) Compare the distribution of distances cycled by members of Club Red and Club Blue.

5 marks

1. The table gives some information about the times taken (in seconds) by 100 students to complete a puzzle.

Least time	45
Greatest time	92
Lower quartile	60
Upper quartile	78
Median	68

a) Draw a box plot to represent this information.



b) Work out an estimate for the number of students who took between 45 seconds and 78 seconds to complete the puzzle.

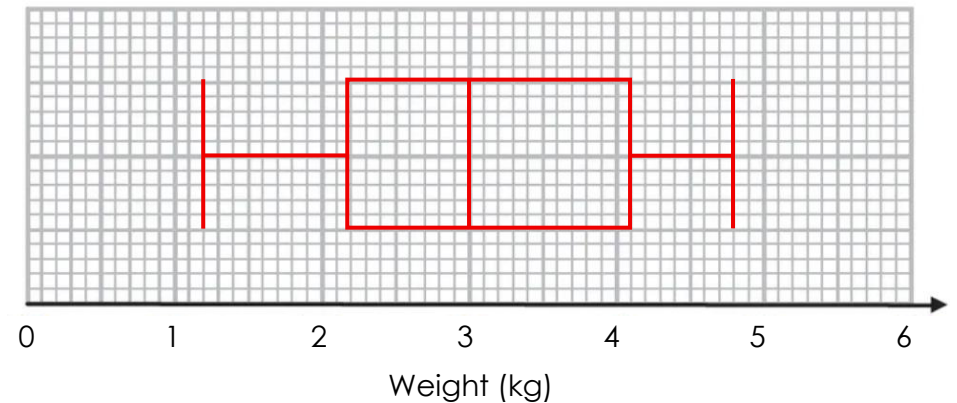
75

5 marks

2. The table gives some information about the weights of 60 watermelons in a supermarket.

Least time	1.2
Range	3.6
Lower quartile	2.2
Interquartile range	1.9
Median	3.0

a) Draw a box plot to represent this information.



b) Work out an estimate for the number of watermelons weighing between 2.2 kg and 4.8 kg.

45

5 marks

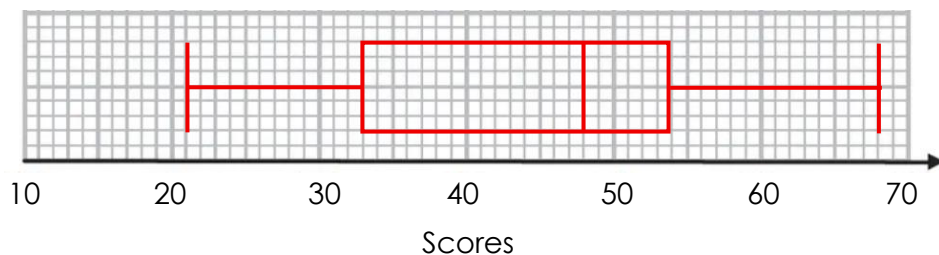
VIDEO LESSON



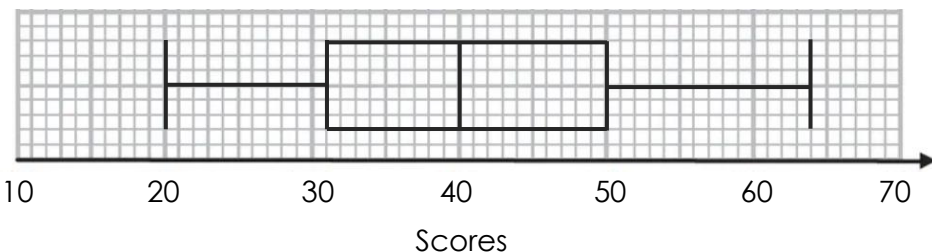
3. Two classes, Class A and Class B, sat the same history exam. The table gives some information about the scores of Class A.

Minimum	21
Lower quartile	33
Median	48
Interquartile range	21
Range	47

a) Draw a box plot to represent this information.



The box plot below shows information about the scores of Class B



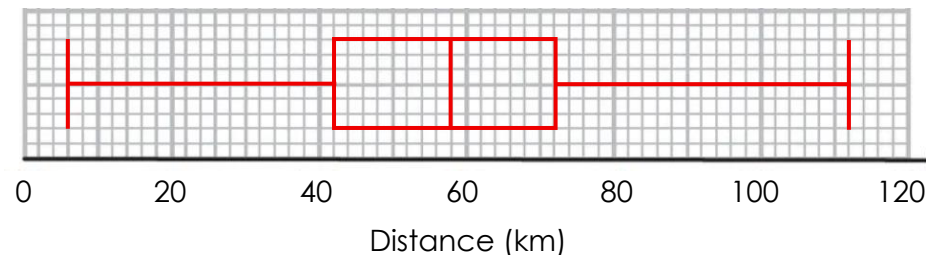
b) Compare the distributions of the scores of Class A and Class B.

Class A has a higher median score than Class B. Class A also has a higher interquartile range (IQR) than Class B. This shows that the middle 50% of scores in Class A are more spread out than in Class B.

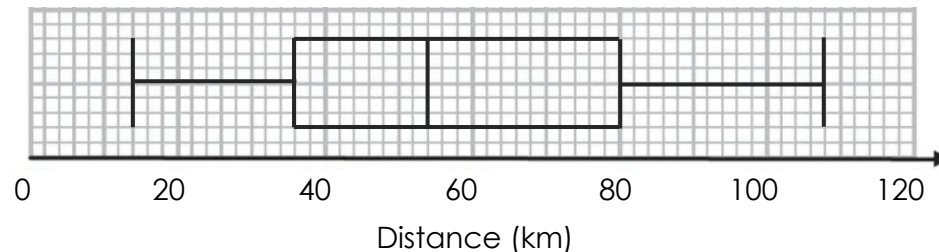
4. Two cycling clubs, Club Red and Club Blue, record the distances (in km) their members cycled. The table gives information by Club Red.

Minimum	6
Lower quartile	42
Median	58
Interquartile range	30
Range	106

a) Draw a box plot to represent this information.



The box plot below shows information about the scores of Club Blue.



b) Compare the distribution of distances cycled by members of Club Red and Club Blue.

Club Red has a higher median distance than Club Blue. Club Blue has a higher interquartile range than Club Red. This means the distances cycled by the middle 50% of Club Blue are more spread out than in Club Red.