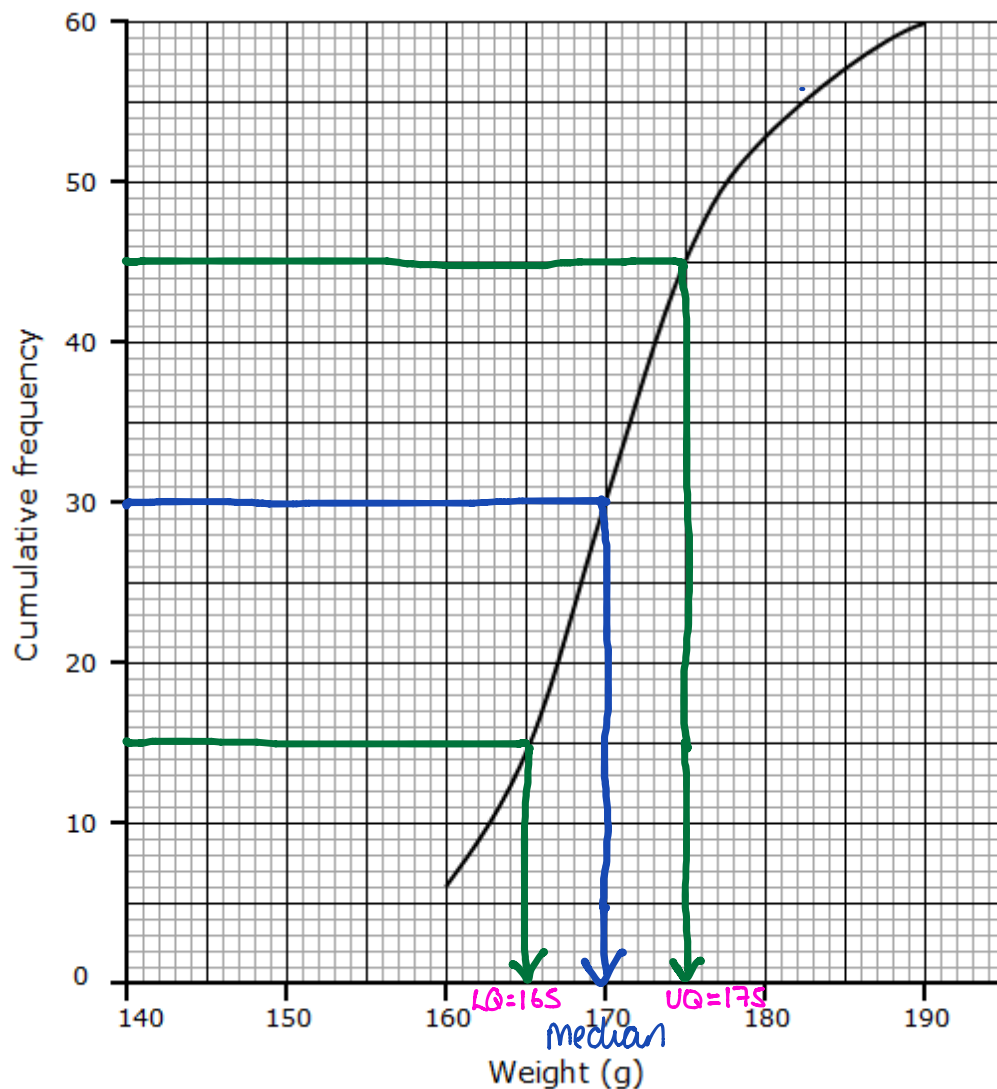


obviously you will
use a ruler

Harry grows tomatoes. This year he put his tomato plants into 2 groups, group A and group B.

Harry gave fertiliser to the tomato plants in group A. He did not give fertiliser to the tomato plants in group B.

Harry weighed 60 tomatoes from group A. The cumulative frequency graph shows some information about these weights.



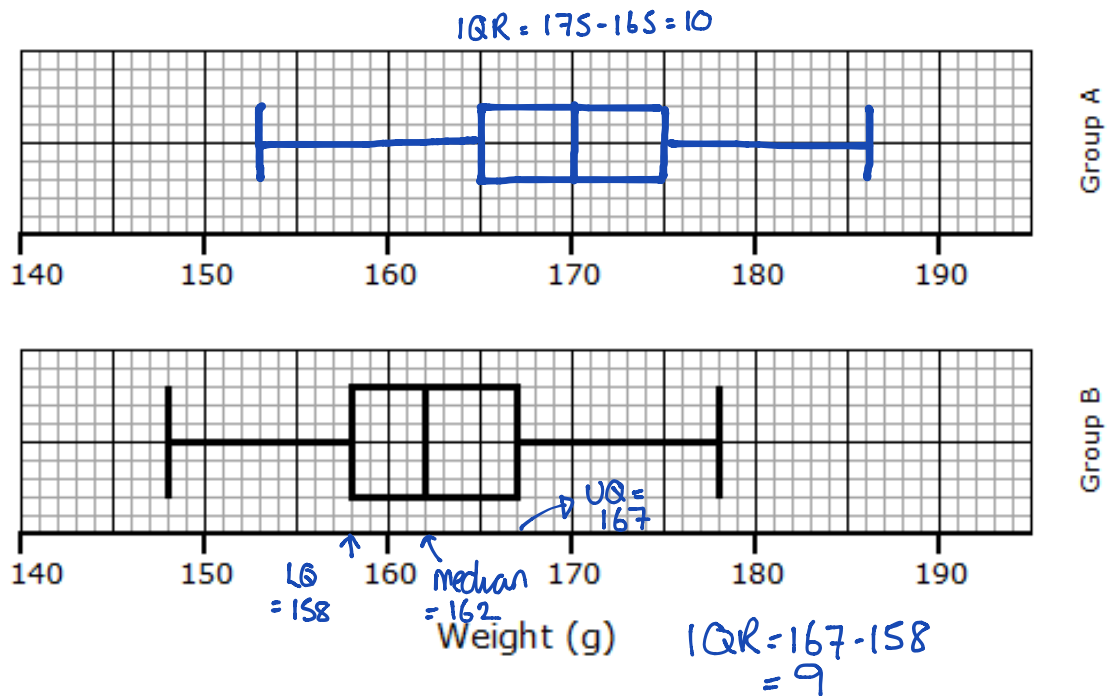
Use the graph to find an estimate for the median weight.

$$= 170\text{g} \quad (1)$$

The 60 tomatoes from group A had a minimum weight of 153 grams and a maximum weight of 186 grams.

Use this information and the cumulative frequency graph to draw a box plot for the 60 tomatoes from group A.

(3)



Harry did not give fertilise to the tomato plants in group B. Harry weighed 60 tomatoes from group B. He drew the above box plot for his results.

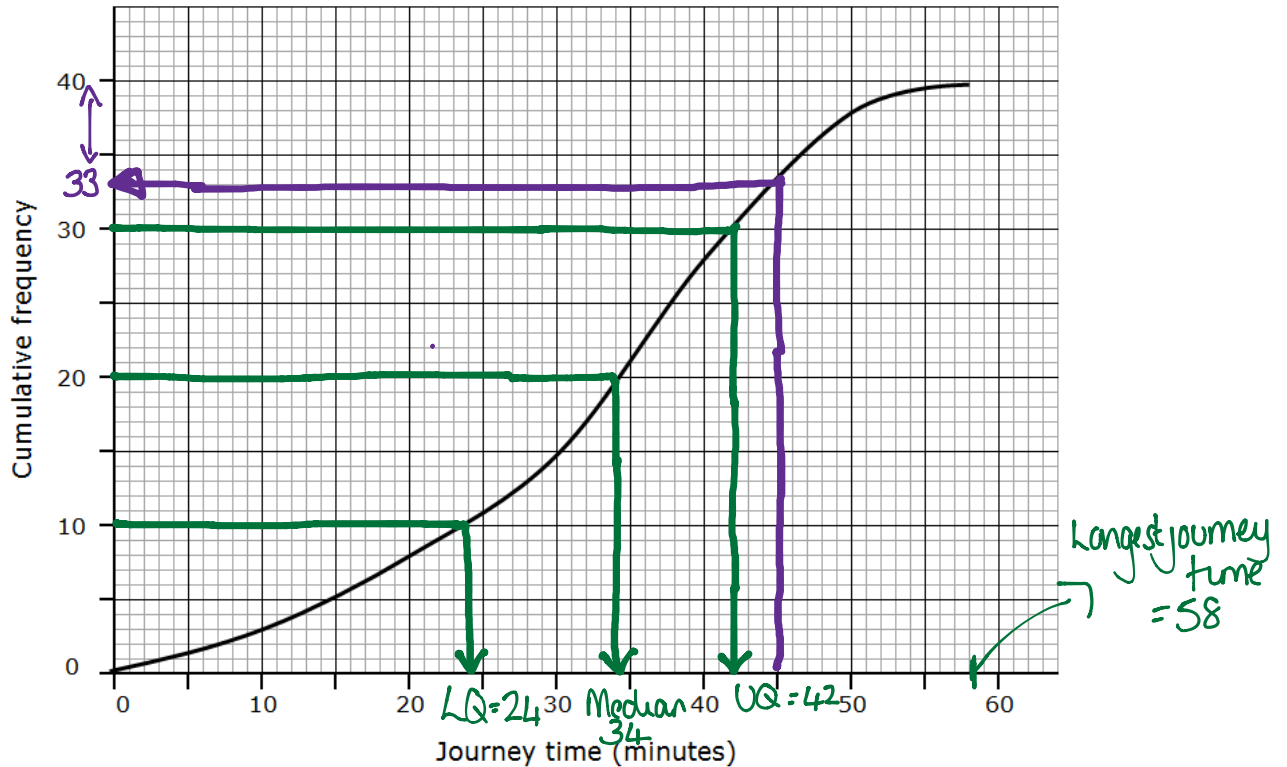
Compare the distribution of the weights of the tomatoes from group A with the distribution of the weights from group B.

* group A has a higher median

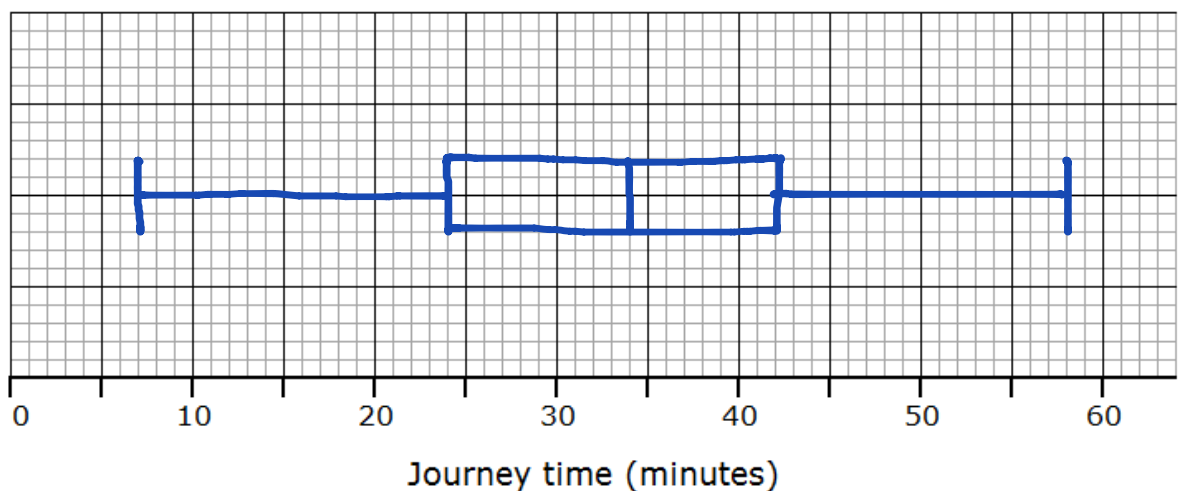
* group B has a smaller IQR (more consistent)

(2)

The cumulative frequency graph shows the journey times, in minutes, of 40 people travelling to work.



The shortest journey time was 7 minutes. Use the cumulative frequency diagram to draw a box plot of this information.



Estimate the number of people who take longer than 45 minutes to travel to work. = 7 people