

# Plot a box plot and compare distributions

Maths

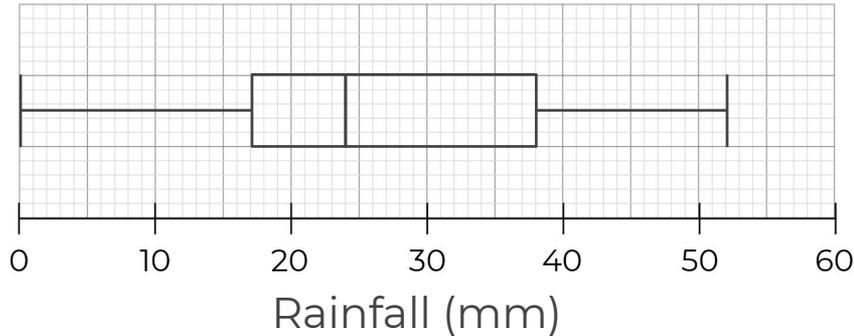
Miss Parnham



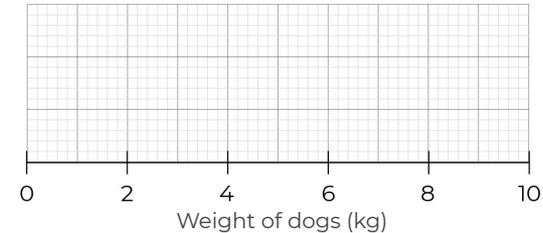
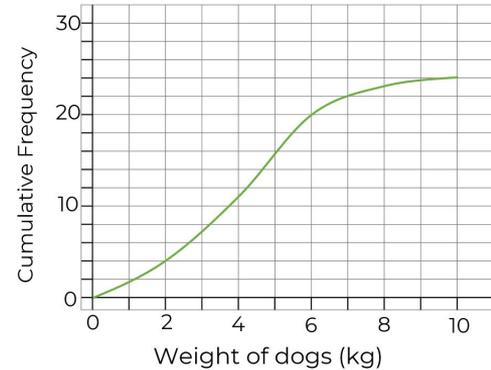
# Plot a box plot and compare distributions

1. Complete the table for the daily rainfall recorded for one month.

Minimum	Lower Quartile	Median	Upper Quartile	Maximum

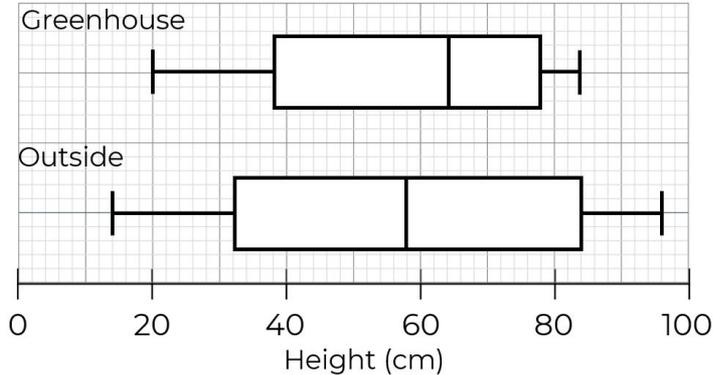


2. Draw a box plot from the cumulative frequency diagram.



# Plot a box plot and compare distributions

3. The box plots show the heights of tomato plants.



Complete the table and compare the two distributions.

	Greenhouse	Outside
Median		
Range		
IQR		

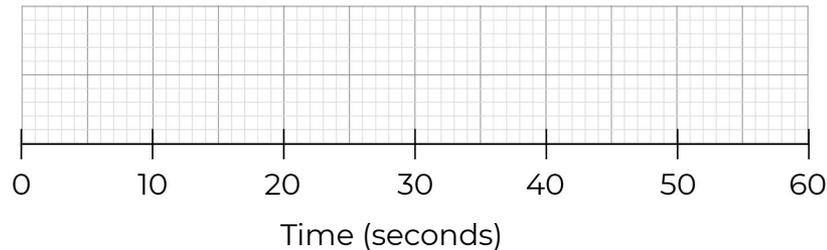


# Plot a box plot and compare distributions

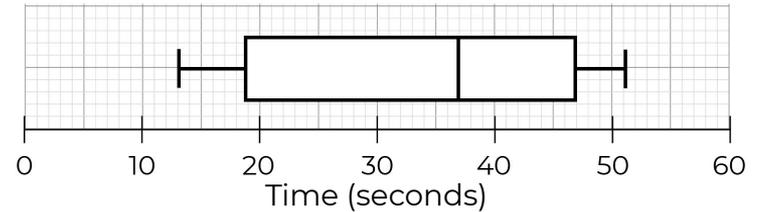
4. The table shows some information about the waiting times at a self-service check out.

Minimum	Lower Quartile	Median	Upper Quartile	Range
7	16	28	50	48

Draw a box plot for the waiting times at a self-service checkout.



This box plot shows waiting times at a staffed checkout. Make 2 comparisons.



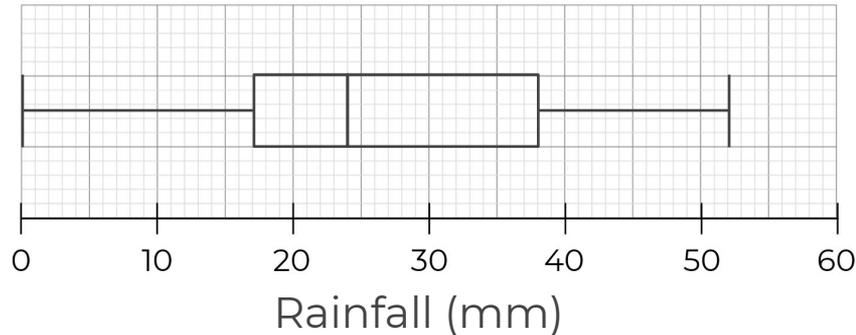
# Answers



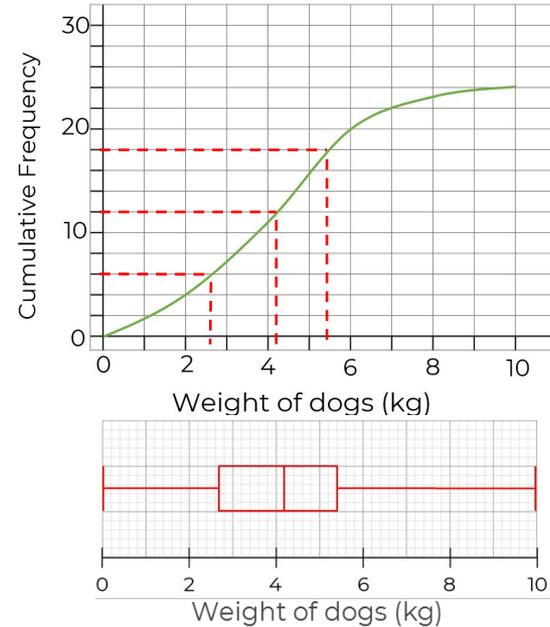
# Plot a box plot and compare distributions

1. Complete the table for the daily rainfall recorded for one month

Minimum	Lower Quartile	Median	Upper Quartile	Maximum
0	17	24	38	52

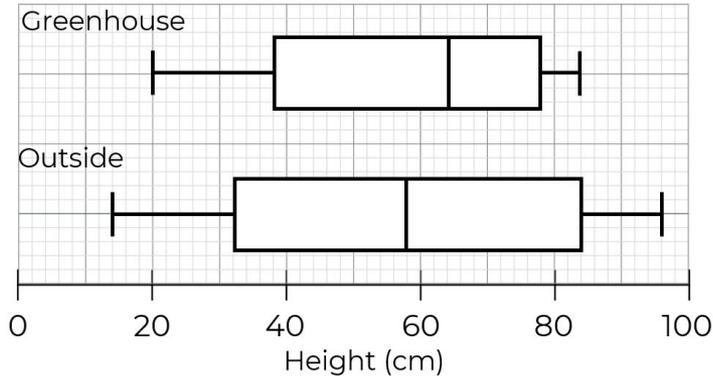


2. Draw a box plot from the cumulative frequency diagram.



# Plot a box plot and compare distributions

3. The box plots show the heights of tomato plants.



Greater range of plant heights outside.

Complete the table and compare the two distributions.

	Greenhouse	Outside
Median	64	58
Range	64	82
IQR	40	52

Average height taller in greenhouse.

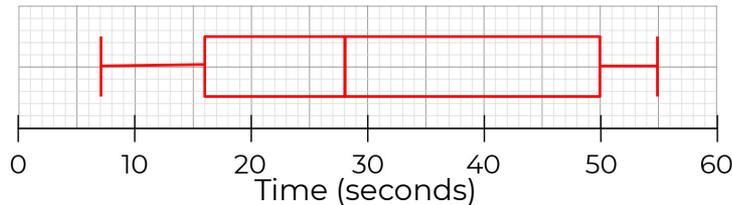


# Plot a box plot and compare distributions

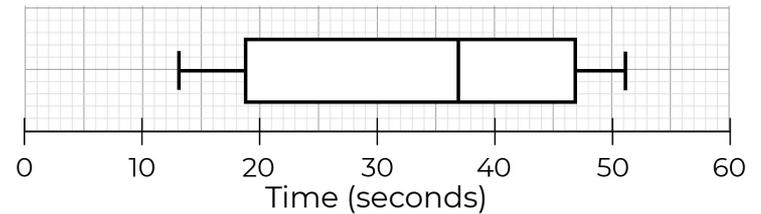
4. The table shows some information about the waiting times at a self-service check out.

Minimum	Lower Quartile	Median	Upper Quartile	Range
7	16	28	50	48

Draw a box plot for the waiting times at a self-service checkout.



This box plot shows waiting times at a staffed checkout. Make 2 comparisons.



Average waiting time shorter at self-checkout.

Greater interquartile range of waiting times at self-checkout, less consistent.

