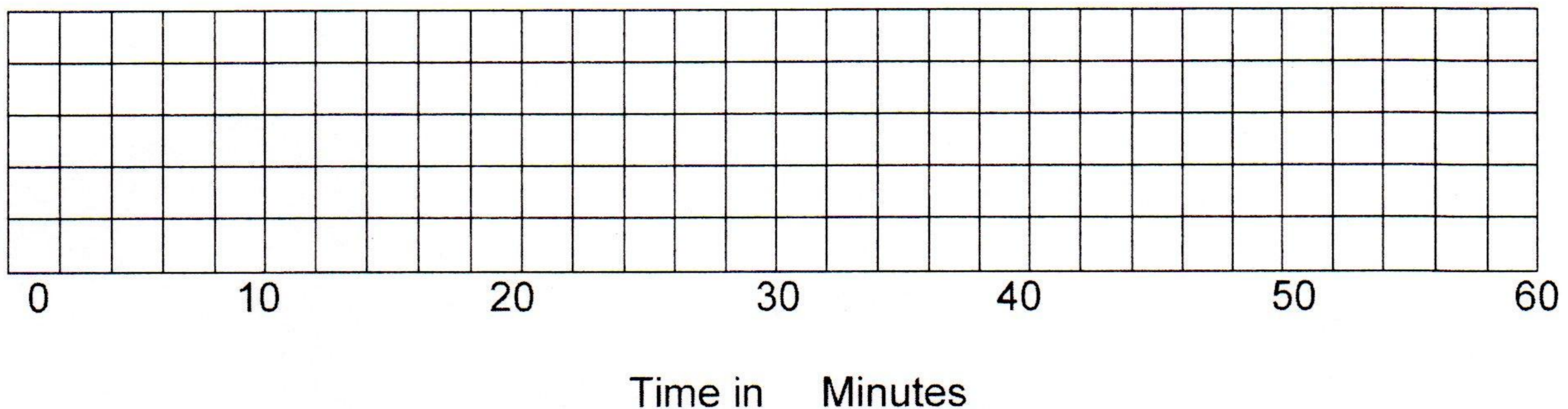


# Box plot graph

1. Mrs Raja set work for the students in her class. She recorded the time taken, in minutes, for each student to do the work. She used her results to work out the information in the table.

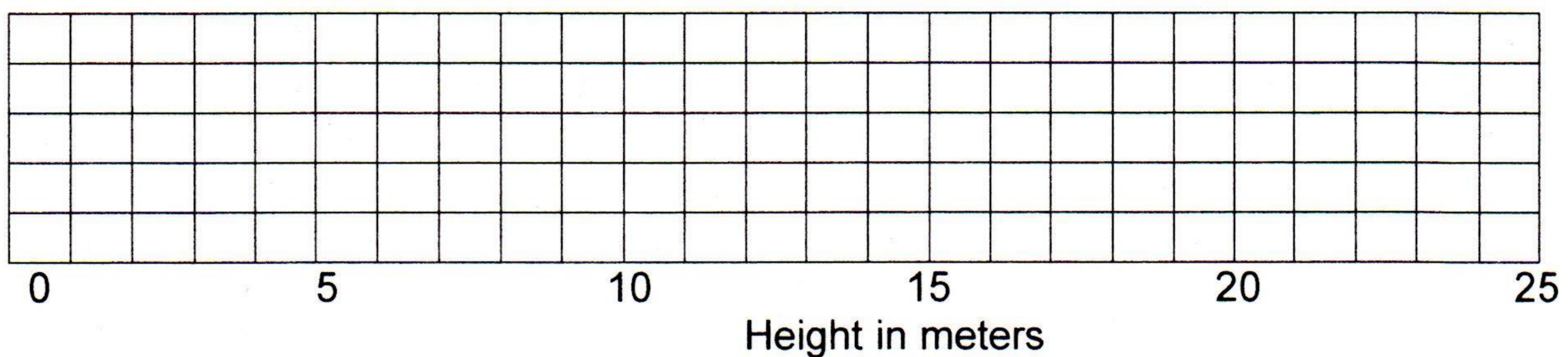
	Minutes
Shortest time	4
Lower quartile	14
Median	26
Upper quartile	30
Longest time	57

On the grid, draw a box plot to show the information in the table.



2. The box plot gives information about the distribution of the heights of all the trees in a wood. Draw all information on the graph.

Shortest Height of tree:	4 m
Longest Height of tree	:23m
Upper Quartile:	18m
Lower Quartile:	8m
2 <sup>nd</sup> Quartile:	12m



(a) Write down the median height of the trees.

\_\_\_\_\_m

(b) Work out the interquartile range of the heights of the trees.

\_\_\_\_\_m

There are 300 trees in the wood.

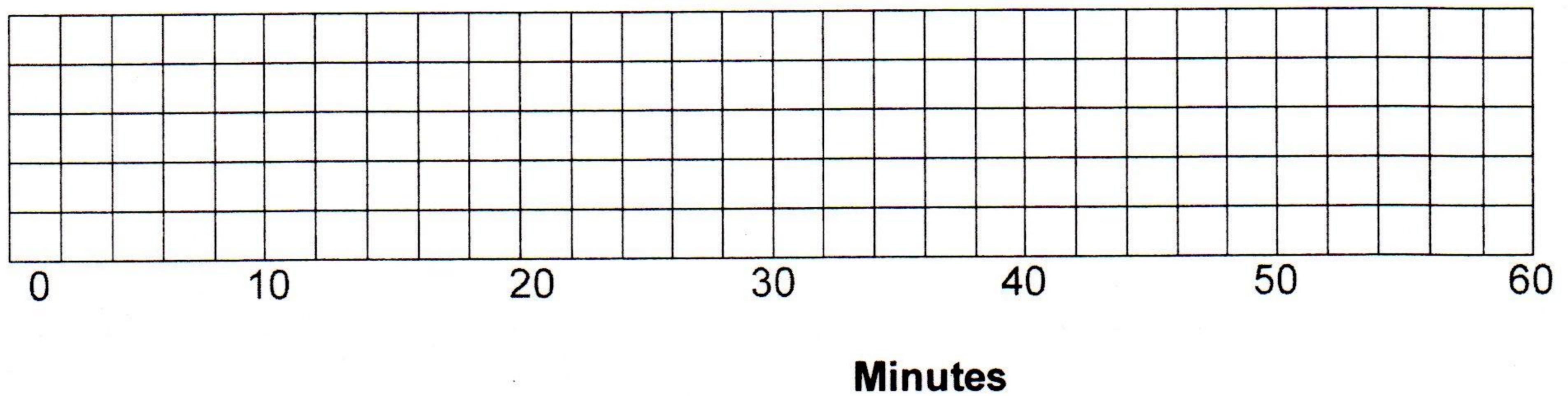
(c) Work out the number of trees in the wood with a height of 18 m or more.

\_\_\_\_\_

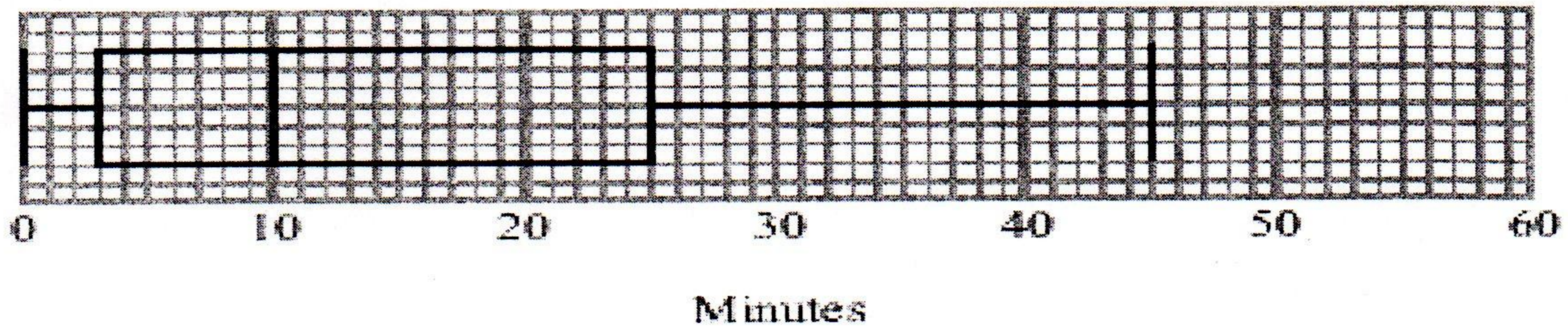
3) . On Friday, Yusuf went to the airport. He recorded the number of minutes that each plane was delayed. He used his results to work out the information in this table.

	Minutes
Shortest Delay	0
Lower Quartile	2
Median	8
Upper quartile	18
Longest Delay	41

a) On the grid, draw a box plot to show the information in the table.



4. Yusuf also went to the airport on Saturday. He recorded the number of minutes that each plane was delayed. The box plot below was drawn using this information.



(b) Make two comparisons between the distributions of plane delays on Friday and on Saturday.

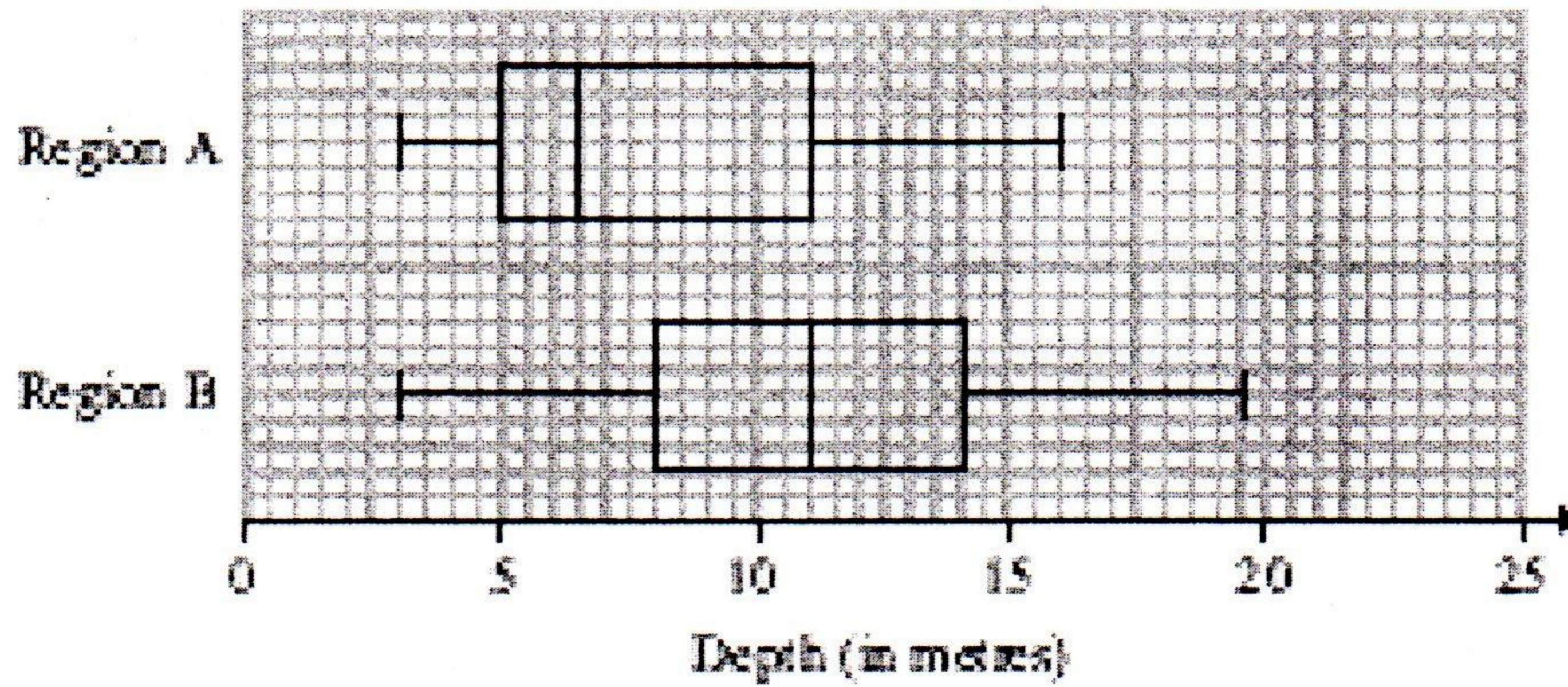
1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

5) The box plots show information about the depths of the craters in two regions of the moon.

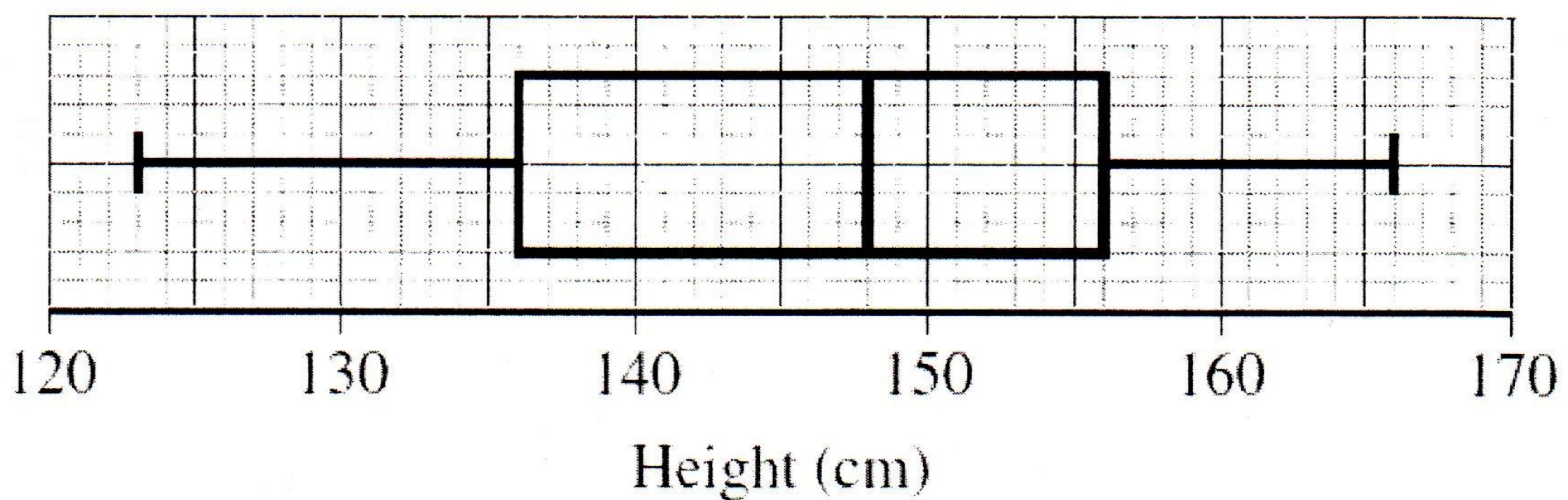


Compare the distributions of the depths of the craters in region A and the depths of the craters in region B.

1 \_\_\_\_\_

2 \_\_\_\_\_

The box plot shows some information about the heights of 100 children.



(a) Work out the interquartile range of the heights of these children.

Answer: \_\_\_\_\_

(b) Each of these children has a different height.  
How many children are over 156 cm tall?

Answer: \_\_\_\_\_