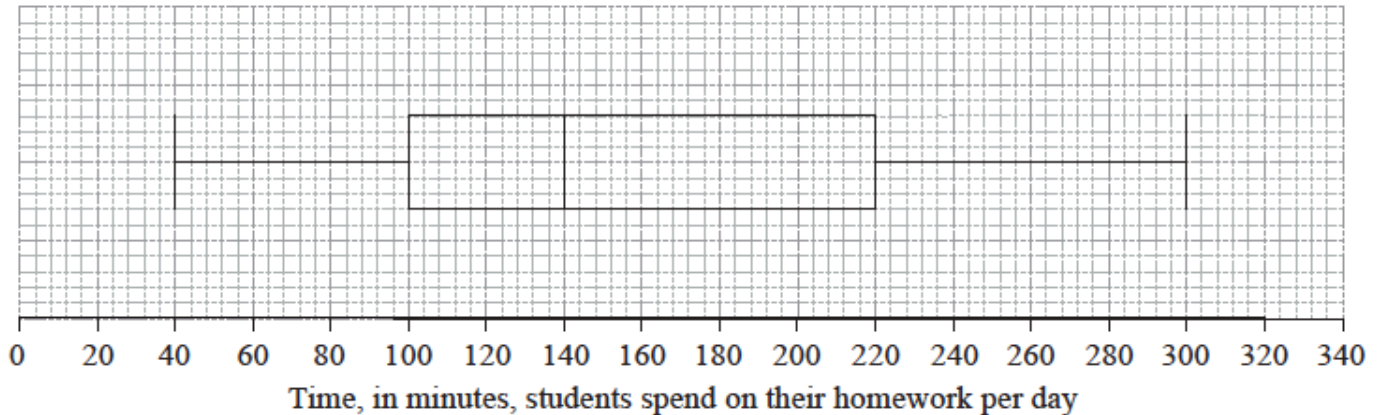


ASSIGNMENT: Box-and-Whisker and Cumulative Frequency

DIRECTIONS: Box-and-Whisker has markers of minimum, Q1, Median, Q3, and maximum. Cumulative frequency adds categories as it slopes upward.

1. The time, in minutes, that students in a school spend on their homework per day is presented in the following box-and-whisker diagram.

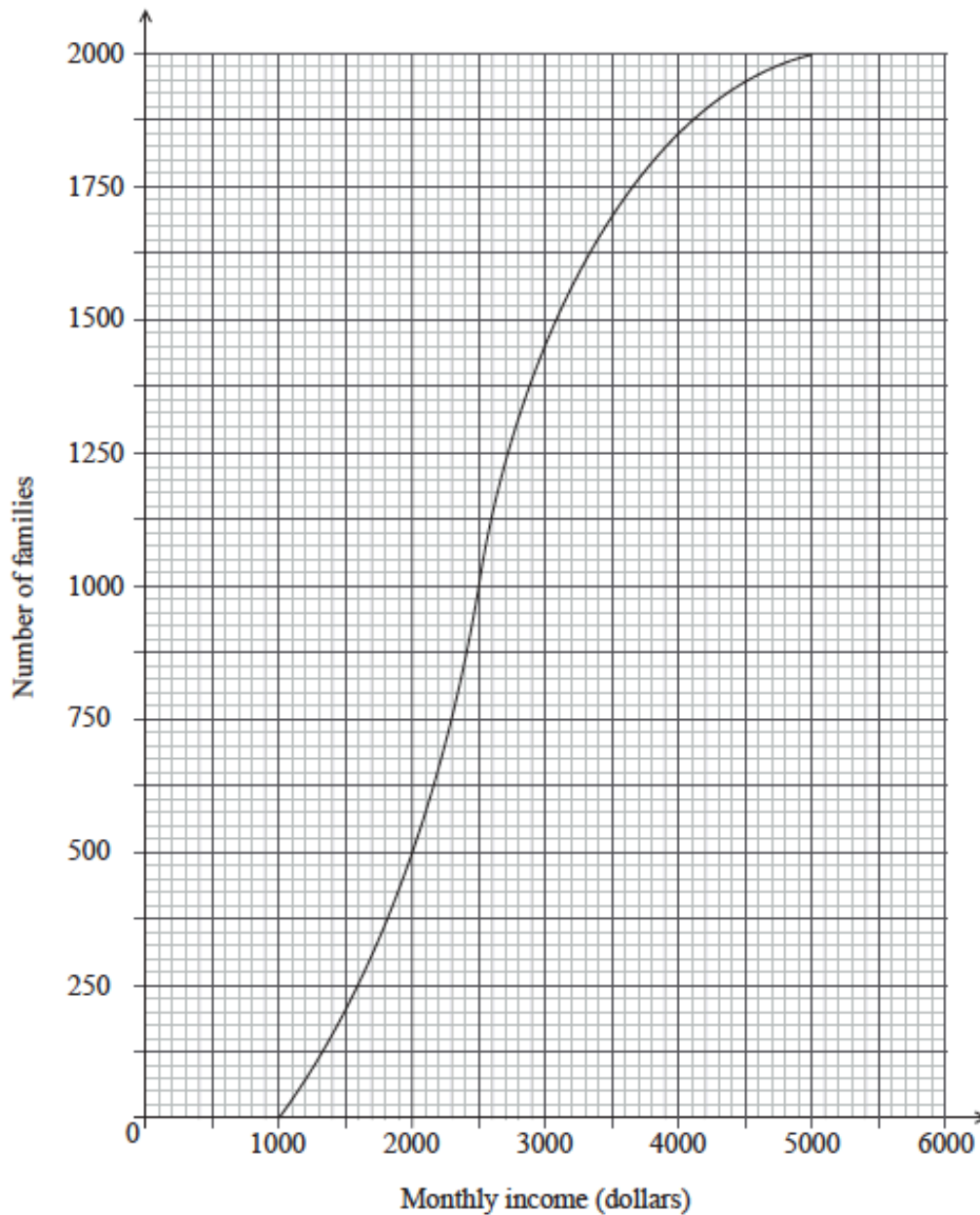


- (a) Find
- (i) the longest amount of time spent on homework per day;
 - (ii) the interquartile range. [3]
- (b) State the statistical term corresponding to the value of 140 minutes. [1]
- (c) Find the percentage of students who spend
- (i) between 100 and 140 minutes per day on their homework;
 - (ii) more than 100 minutes per day on their homework. [2]

2.) An arrival schedule in China shows the following times - 08:24am, 08:29am, 08:39am, 08:52am, 09:10am, 10:15am, 10:25am, 10:36am, 11:05am

Please make a stem and leaf plot with this data. Include a key.

The following cumulative frequency graph shows the monthly income, I dollars, of 2000 families.



- (a) Find the median monthly income. [2]
- (b) (i) Write down the number of families who have a monthly income of 2000 dollars or less.
- (ii) Find the number of families who have a monthly income of more than 4000 dollars. [4]