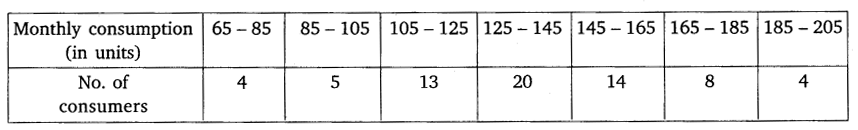
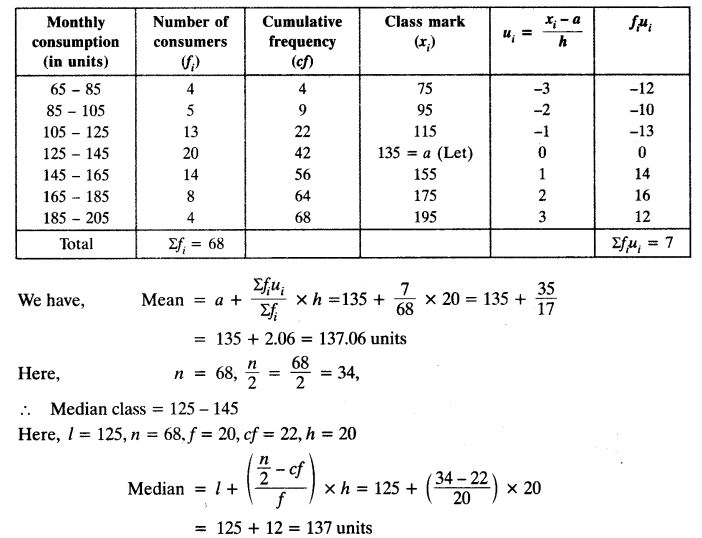
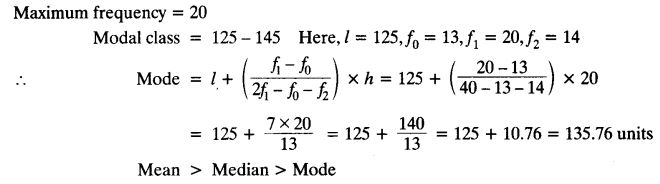
EXERCISE 13.3

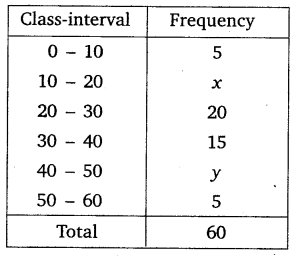
Question 1:

The following frequency distribution gives the monthly consumption of electricity of 68 consumers of a locality. Find the median, mean and mode of the data and compare them.  


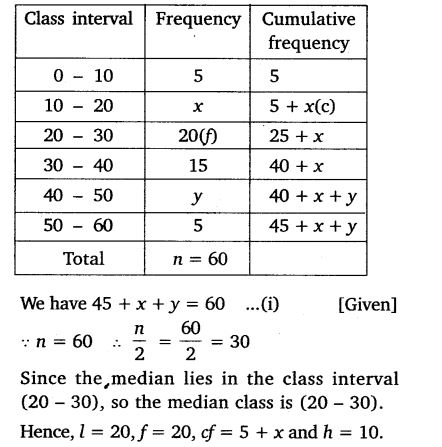
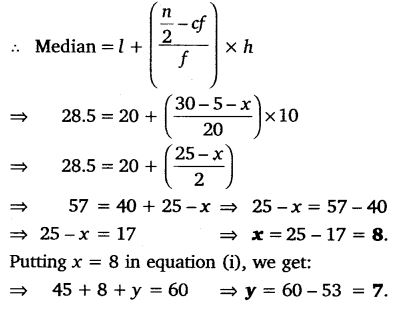
Solution:

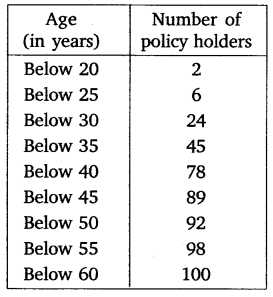
Question 2:

If the median of the distribution given below is 28.5, find the values of x and y.  


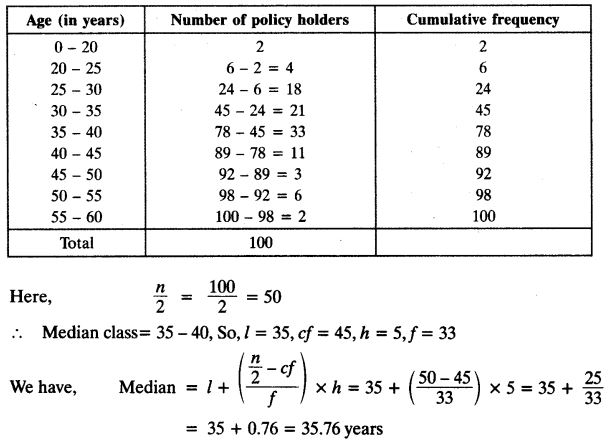
Solution:

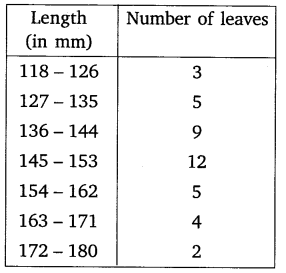
Question 3:

A life insurance agent found the following data for distribution of ages of 100 policy holders. Calculate the median age, if policies are given only to persons having age 18 years onwards but less than 60 years.  


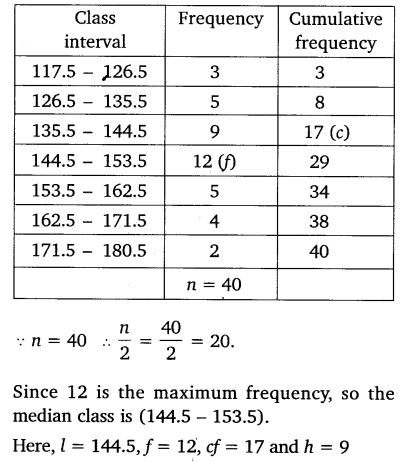
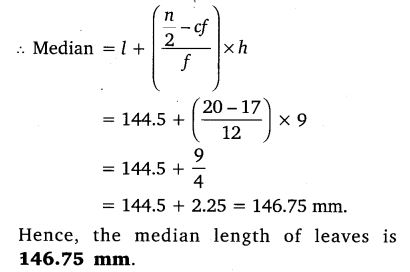
Solution:



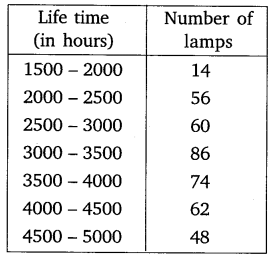
Question 4:

The lengths of 40 leaves of a plant are measured correct to nearest millimetre, and the data obtained is represented in the following table:  


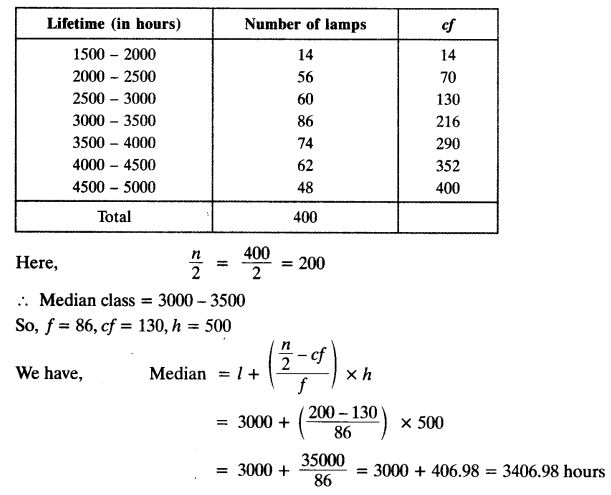
Solution:

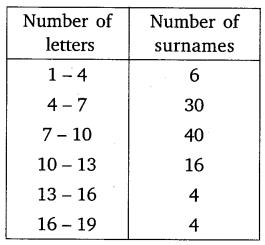
Question 5:

The following table gives the distribution of the lifetime of 400 neon lamps:  


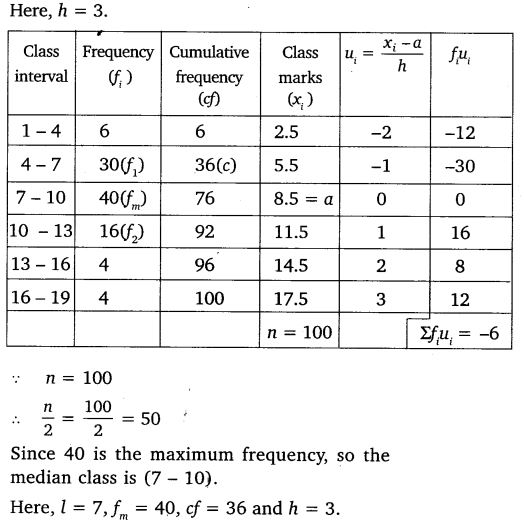
Solution:

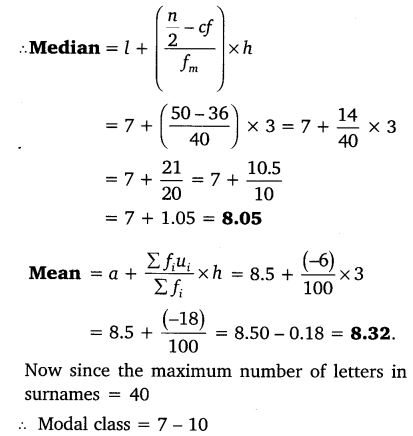
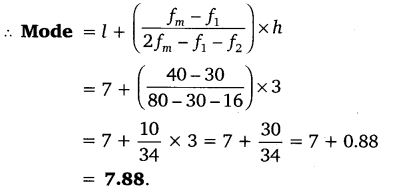


Question 6:

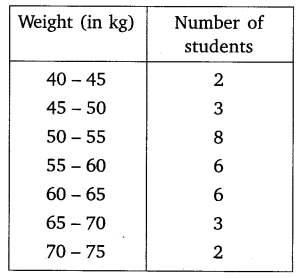
100 surnames were randomly picked up from a local telephone directory and the frequency distribution of the number of letters in the English alphabet in the surnames was obtained as follows:  


Solution:



Question 7:

The distribution below gives the weight of 30 students of a class. Find the median weight of the students.  


Solution:

