EXERCISE 33 (C)

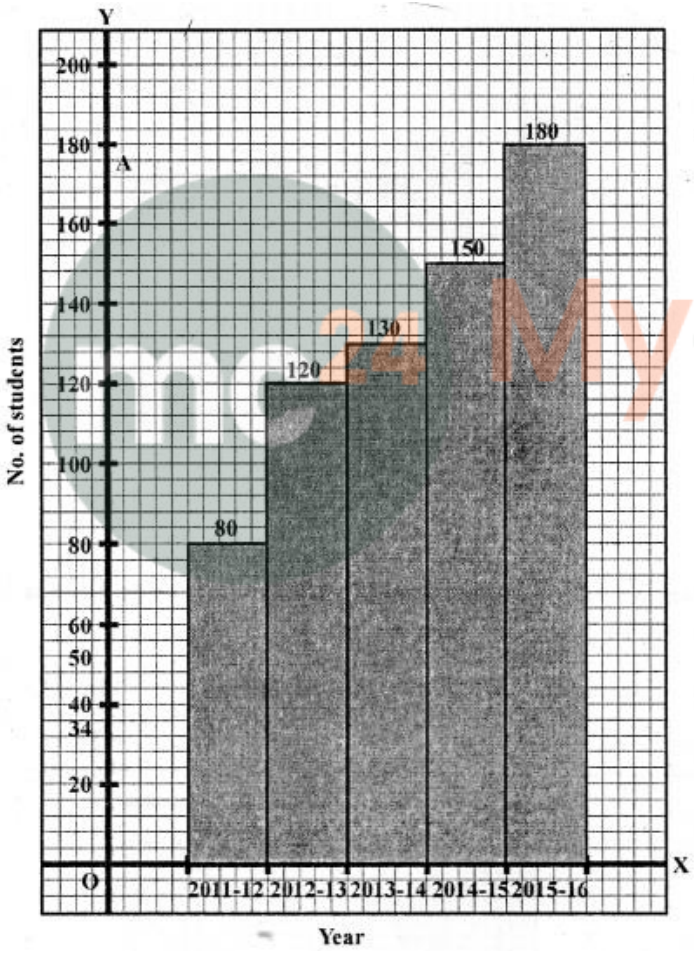
Question 1.

The following table gives the number of students in class VI in a school during academic years 2011-2012 to 2015-2016.

Academic years	2011-12	2012-13	2013-2014	2014-2015	2015-16
No. of students	80	120	130	150	180

Represent the above data by a bar graph.

Solution:



Question 2.

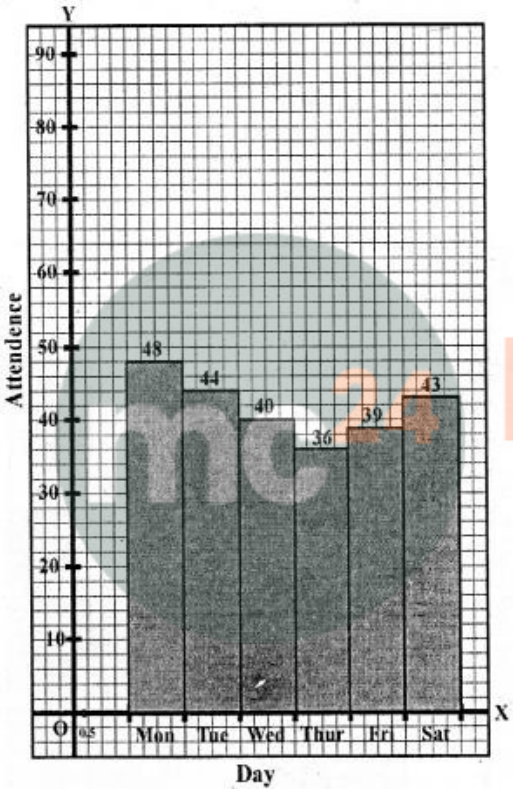
The attendance of a particular class for the six days of a week are as given below

:

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Attendence	48	44	40	36	39	43

Draw a suitable graph.

Solution:



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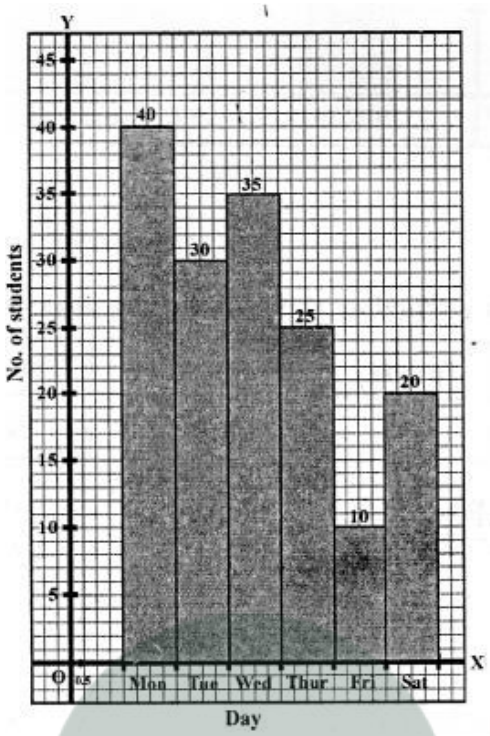
Question 3.

The total number of students present in class VI B, for the six days in a week were as given below. Draw a suitable bar graph.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
No. of student present	40	30	35	25	10	20

Solution:



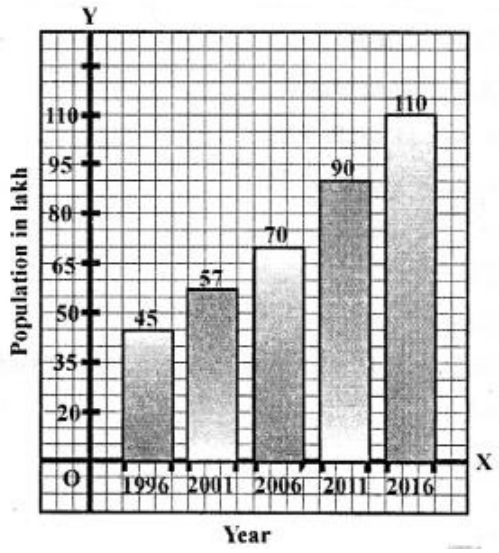
Question 4.

The following table shows the population of a particular city at different years :

Year	1996	2001	2006	2011	2016
Population in Lakh	45	57	70	90	110

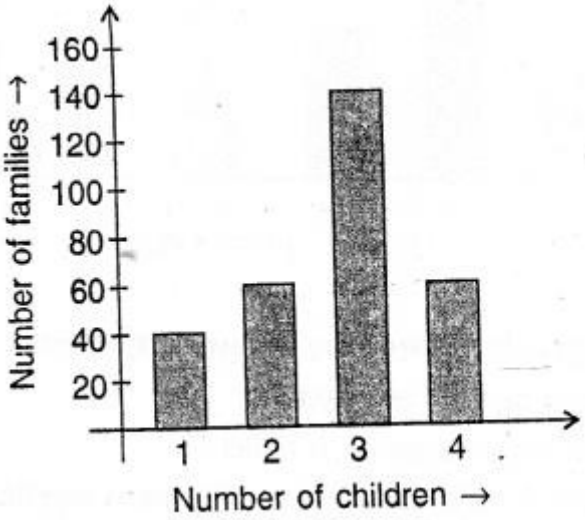
Represent the above information with the help of a suitable bar graph.

Solution:



Question 5.

In a survey of 300 families of a colony, the number of children in each family was recorded and the data has been represented by the bar graph, given below :



Read the graph carefully and answer the following questions :

(i) How many families have 2 children each ?

(ii) How many families have no child ?

(iii) What percentage of families have 4 children ?

Solution:

(i) 60 families have 2 children each.

(ii) Zero

(iii) The percentage of families having 4 children = $\frac{60}{300}$ x 100 = 20%

Question 6.

Use the data, given in the following table, to draw' a bar graph

A	B	C	D	E	F
250	300	225	350	275	325

Out of A, B, C, D, E and F

(i) Which has the maximum value.

(ii) Which is greater A + D or B + E.

Solution:

(i) D has the maximum value of 350

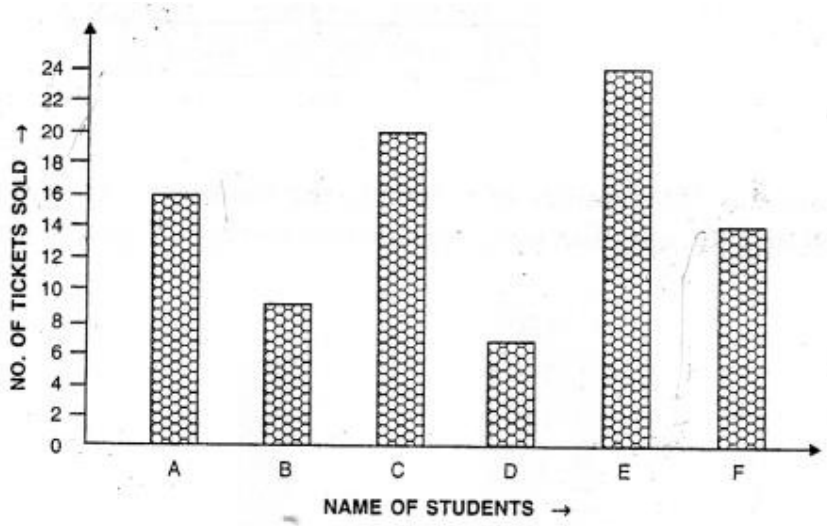
(ii) A + D = 250 + 350 = 600

B + E = 300 + 275 = 575

Hence A + D is greater.

Question 7.

The bar graph drawn below shows the number of tickets sold during a fair by 6 students A, B, C, D, E and F.



Using the Bar graph, answer the following questions :
(i) Who sold the least number of tickets?
(ii) Who sold the maximum number of tickets ?
(iii) How many tickets were sold by A, B and C taken together ?
(iv) How many tickets were sold by D, E and F taken together ?
(v) What is the average number of tickets sold per student ?

Solution:

(*i*) Student D sold the least number of tickets, *i.e.* 7 tickets.

(*ii*) Student E sold the maximum number of tickets *i.e.* 24 tickets

(*iii*) The tickets sold by A, B and C taken together

= Tickets sold by A + Tickets sold by B + Tickets sold by C

= 16 + 9 + 20 = 45 tickets

(*iv*) The tickets sold by D, E and F taken together

= Tickets sold by D + Tickets sold by E + Tickets sold by F

= 7 + 24 + 14 = 45 tickets

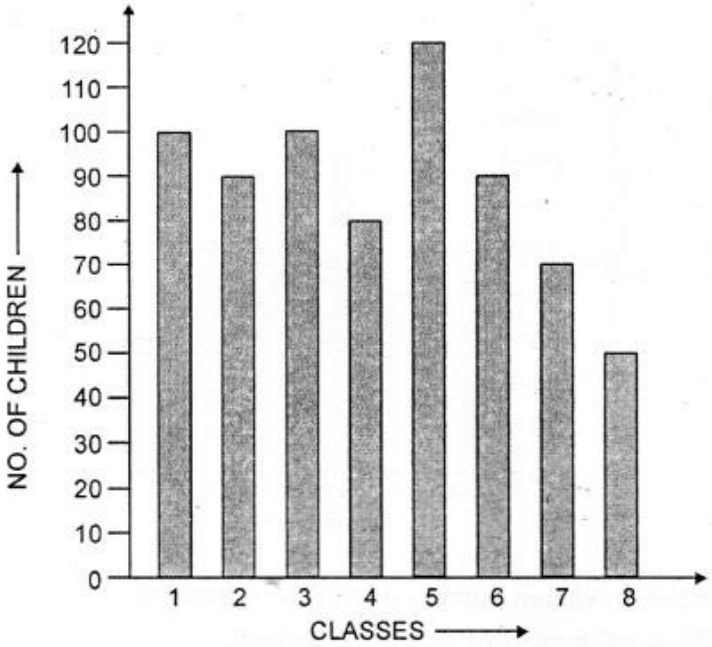
(*v*) Average Number of tickets sold per student $= \frac{\text{Tickets sold by A + B + C + D + E + F}}{6}$

$= \frac{16+9+20+7+24+14}{6}$

$= \frac{90}{6} = 15$ tickets

Question 8.

The following bar graph shows the number of children, in various classes, in a school in Delhi.

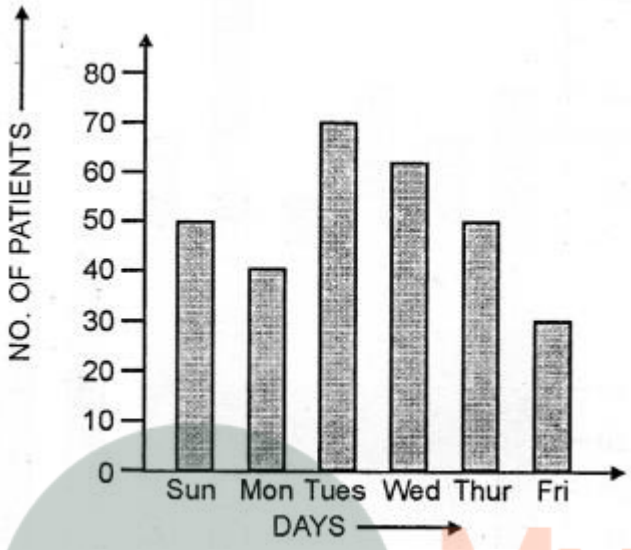


Using the given bar graph, find :
(i) the number of children in each class.
(ii) the total number of children from Class 6 to Class 8.
(iii) how many more children there are in Class 5 compared to Class 6 ?
(iv) the total number of children from Class 1 to Class 8.
(v) the average number of children in a class.

Solution:
(i) In, Class 1 = 100, Class 2 = 90, Class 3 = 100, Class 4 = 80,
Class 5 = 120, Class 6 = 90, Class 7 = 70, Class 8 = 50
(ii) Class 6 = 90, Class 7 = 70, Class 8 = 50, Total number = 210
(iii) Number of student in class 5 = 120, Number of student in class 6 = 90
More children is class 5 = (120 – 90) = 30
(iv) Total number of children class 1 to 8 = 100 + 90+ 100+ 80 + 120 +90 + 70 + 50 = 700

$$(v)\ \text{Average number of children is each class} = \frac{\text{Total number of children}}{\text{Number of classes}} = \frac{700}{8} = 87{\cdot}5$$

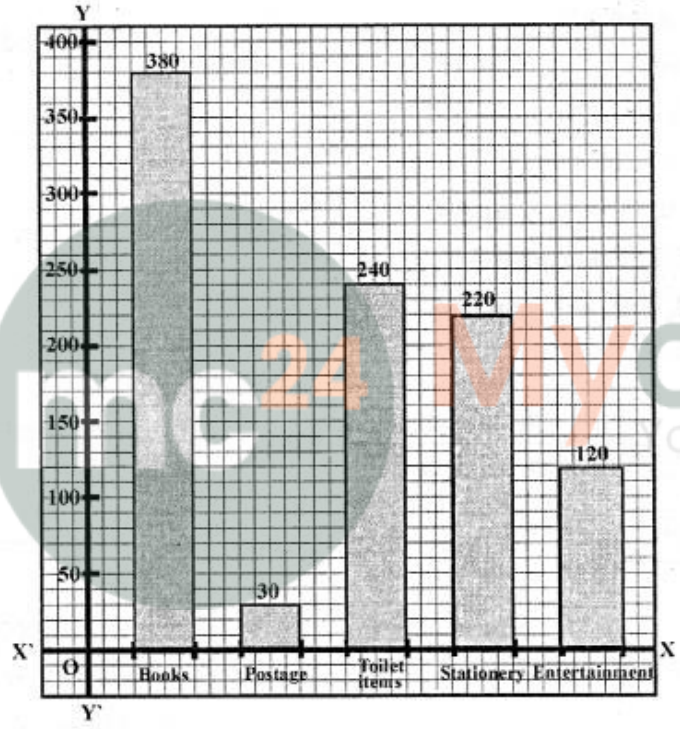
Question 9.
The column graph, given above , shows the number of patients, examined by Dr. V.K. Bansal, on different days of a particular week.
Use the graph to answer the following:
(i) On which day were the maximum number of patients examined ?
(ii) On which day were the least number of patients examined ?
(iii) On which days were equal number or patients examined ?
(iv) What is the total number of patients examined in the week ?
Solution:



(i) Tuesday were the maximum number of patients examined.
(ii) Friday were the least number of patients examined.
(iii) Sunday and Thursday were equal number of patient examined.
(iv) Total number of patients examined in the week .
= 50 + 40 + 70 + 60 + 50 + 30 = 300

Question 10.
A student spends his pocket money on various items, as given below : Books : Rs. 380, Postage : Rs. 30, Cosmetics : Rs. 240, Stationary : Rs. 220 and Entertainment : Rs. 120.
Draw a bar graph to represent his expenses.
Solution:
Amount spent on
Books = Rs. 380
Postage = Rs. 30
Cosmetics = Rs. 240
Stationary = Rs. 220
Entertainment = Rs. 120

The bar graph of the above given data is below.



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