

EXERCISE 33(C)

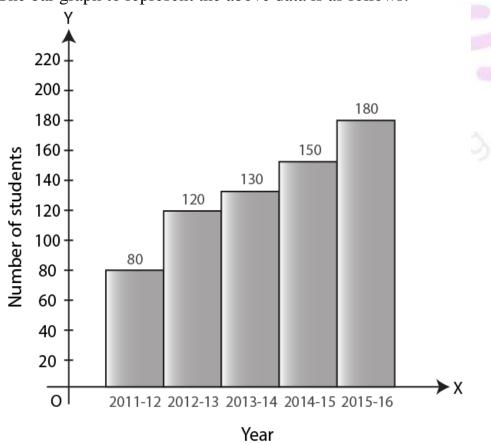
1. The following table gives the number of students in class VI in a school during academic years 2011- 2012 to 2015- 2016.

Academic	2011-2012	2012- 2013	2013- 2014	2014- 2015	2015- 2016
years					
No. of	80	120	130	150	180
students					

Represent the above data by a bar graph.

Solution:

The bar graph to represent the above data is as follows:



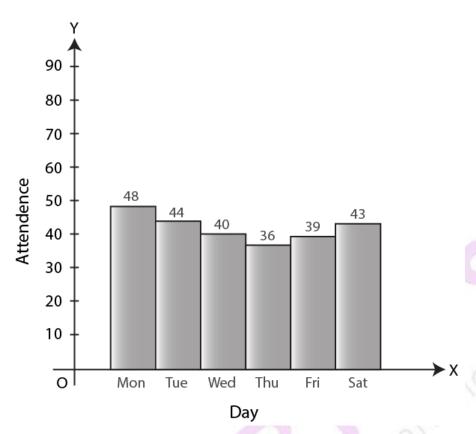
2. The attendance of a particular class for the six days of a week are as given below:

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

Draw a suitable graph.

Solution:



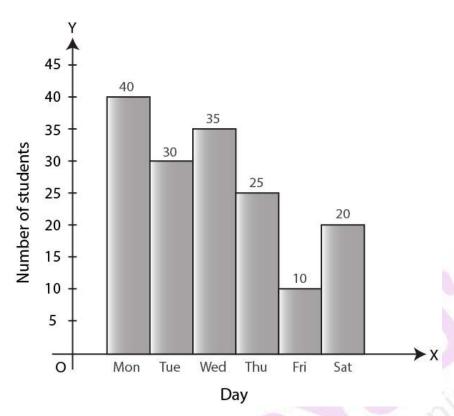


3. The total number of students present in class VI B, for the six day in a week were as given below. Draw a suitable bar graph.

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

Solution:



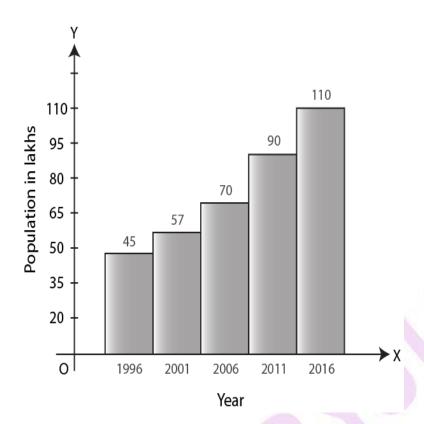


4. The following table shows the population of a particular city at different years:

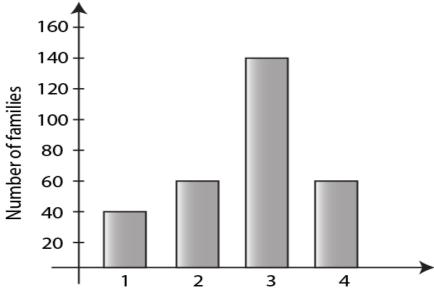
Year	1996	2001	2006	2011	2016
Population	45	57	70	90	110
in Lakh		7.70			

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





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:

Number of children

- (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) From the given figure, 60 families have 2 children each
- (ii) From the given figure, all the families have children. Therefore, the answer is zero
- (iii) The percentage of families having four children can be calculated as below Percentage = (total no. of families having four children) / (total number of families having children) \times 100

 $=600/300\times100$

= 20%

Hence, 20% of families have four children

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

A	В	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) From the given data, D has the maximum value of 350
- (ii) A + D = 250 + 350

We get,

= 600

B + E = 300 + 275

We get,

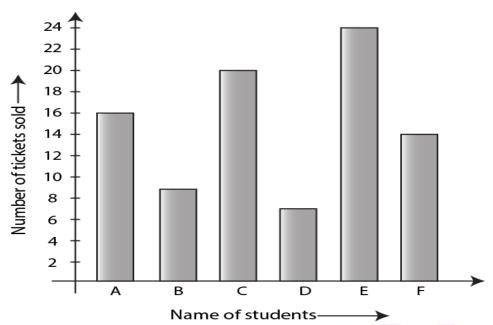
= 575

We know that, 600 is greater than 575

Hence, A + D is greater than B + E

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 question:

- (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) From the given graph, the student D sold the least number of tickets i.e 7 tickets
- (ii) From the given graph, the student E sold the maximum number of tickets i.e 24 tickets
- (iii) From the given graph, total number of tickets sold by the student A, B and C can be calculated as below

Tickets sold by A, B and C taken together = (Tickets sold by A) + (Tickets sold by B) + (Tickets sold by C)

$$= 16 + 9 + 20$$

We get,

Therefore, total tickets sold by A, B and C together is 45 tickets

(iv) From the given graph, total number of tickets sold by the student D, E and F can be calculated as below

Tickets sold by D, E and F = (Tickets sold by D) + (Tickets sold by E) + (Tickets sold by F)

$$= 7 + 24 + 14$$

We get,

Hence, total tickets sold by D, E and F together is 45 tickets

(v) Average number of tickets sold per student can be calculated as below

Average tickets sold per student = (tickets sold by A + B + C + D + E + F) / 6

$$= (16 + 9 + 20 + 7 + 24 + 14) / 6$$

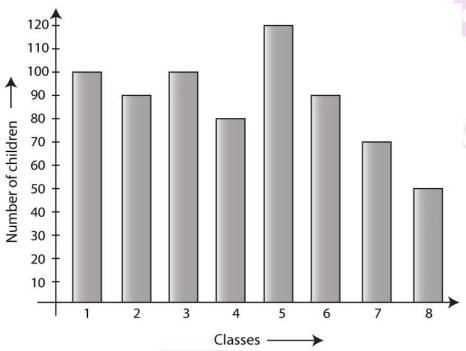
We get,

= 90 / 6

= 15

Hence, average tickets sold per student is 15 tickets

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) From the given graph, the number of students in each class is as follows:

Class 1 = 100 students

Class 2 = 90 students

Class 3 = 100 students

Class 4 = 80 students

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(ii) From the given graph, the number of students from Class 6 to Class 8 is as follows:

Class 6 = 90 students

Class 7 = 70 students

Class 8 = 50 students

Hence, total number of students in Class 6 to Class 8 can be calculated as below:

Total students = Students in Class 6 to Class 8

$$= 90 + 70 + 50$$

We get,

= 210

Hence, total number of students in Class 6, 7 and 8 are 210

(iii) From the given graph, students in Class 5 and Class 6 are as follows:

Class 5 = 120 students

Class 6 = 90 students

More students in Class 5 can be calculated as below

More students in Class 5 = 120 - 90

= 30

Hence, number of more students in Class 5 are 30

(iv) Total number of students in class 1 to 8 can be calculated as below

Total number of students = 100 + 90 + 100 + 80 + 120 + 90 + 70 + 50

We get,

= 700 students

Hence, there are 700 students in class 1 to 8

(v) Average number of students in each class can be calculated as below

Average number of students in each class = (Total number of students in classes) /

Number of classes

= 700 / 8

We get,

= 87.5

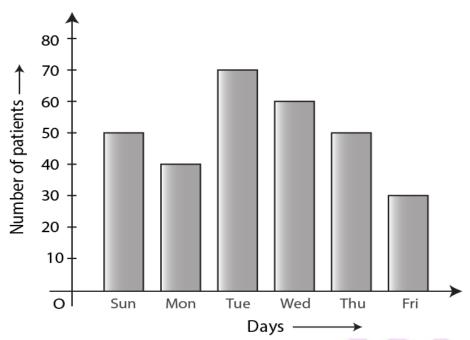
9. The column graph, given above, shows the number of patients, examined by Dr.

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 of patients examined?
- (iv) What is the total number of patients examined in the week?





Solution:

- (i) From the given graph, the maximum number of patients is examined on Tuesday
- (ii) From the given graph, the minimum number of patients is examined on Friday
- (iii) From the given graph, equal number of patients is examined on Sunday and Thursday
- (iv) Total number of patients examined in a week can be calculated as given below Total number of patients examined in a week = 50 + 40 + 70 + 60 + 50 + 30 We get,

= 300 students

Hence, 300 patients are examined in a week

10. A student spends his pocket money on various items, as given below:

Books: Rs 380, Postage: Rs 30, Toilet items: Rs 240, Stationary: Rs 220 and

Entertainment: Rs 120

Draw a bar graph to represent his expenses.

Solution:

Given

The amount spent on items is as follows:

Books = Rs 380

Postage = Rs 30

Toilet items = Rs 240

Stationary = Rs 220

Entertainment = Rs 120

The bar graph of the above given data is as follows



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