

* Choose The Right Answer From The Given Options.

[11]

1. The choices of the sweets of 10 students in a batch are as follows

Jalebi, Kaju Katli, Kalakand, Kaju Katli, Kheer, Barfi,
Rasgulla, Kaju Katli, Kheer, Kaju Katli

The sweet preferred by the most of the students is

(A) Jalebi (B) Rasgulla (C) Kaju Katli (D) Kheer

Ans. : C. Kaju Katli

2. The marks (out of 10) obtained by 28 students in a Mathematics test are listed as given below.

8,1, 2, 6, 5, 5, 5, 0.1, 9, 7. 8, 0, 5. 8, 3, 0. 8.10, 10. 3,4,8, 7,,8, 9, 2,0

The number of students who obtained marks more than Or equal to 5 is

(A) 13 (B) 15 (C) 16 (D) 17

Ans. : D. 17

3. In question 2 (above), the number of students who scored marks less than 4 is

(A) 15 (B) 13 (C) 12 (D) 10

Ans. : D. 10

4. The choices of the fruits of 42 students in a class are as follows.

A, O, B, M, A, G, B, G, A, G, B, M, A, G, M, A, B, G, M, B, A,
O, M, O, G, B, O, M, G, A. A, B. M, O, M, G, B, A, M, O, M, O

Where A, B, G, M and O stand for the fruits Apple, Banana, Grapes, Mango and Orange, respectively. Which two fruits are liked by an equal number of Students ?

(A) A and M (B) M and B (C) B and O (D) B and G

Ans. : D. B and G

5. According to data of question 5, which fruit is liked by most Of the Students?

(A) O (B) G (C) M (D) A

Ans. : C. M

6. In which year were the maximum number of bikes manufactured? Competency Based Question

(A) 2002 (B) 2001 (C) 2000 (D) 1999



Ans. : C. 2000

7. Using the data of question (7). Find the difference between number of bikes manufactured in the years 1999 and 2000.

(A) 300 (B) 305 (C) 310 (D) 410

Ans. : C. 310




8. If  stands for 40, how much does  stands for ?
(A) 5 (B) 8 (C) 6 (D) 16

Ans. : B. 8

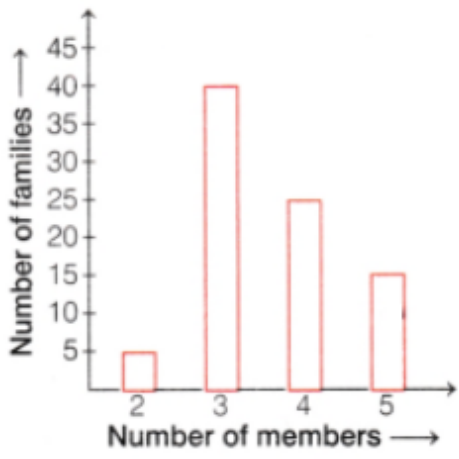
9. A pictograph represents data in the form of
(A) vertical bar (B) horizontal bar (C) pictures (D) None of these

Ans. : C. pictures

10. What is the number of huts represented by the  symbol represents 25 huts?
(A) 125 (B) 100 (C) 150 (D) 75

Ans. : B. 100

11. The following bar graph shows the number of members in each family of a colony.
The number of families having 3 members is



- (A) 25 (B) 30 (C) 35 (D) 40

Ans. : D. 40

* a statement of Assertion (A) is followed by a statement of Reason (R). Choose [3]
the correct option.

12. Assertion (A) Marks obtained by students in Maths test out of 20 are 10,15,19,17, 05, 8,12.

So, the maximum marks in the test obtained by the students is 19.






Reason (R) The tally marks  represent 10.

- (A) Both A and R are true and R is the correct explanation of A.
(B) Both A and R are true but R is not the correct explanation of A.
(C) A is true but R is false.
(D) A is false but R is true.



Ans. : B. Both A and R are true but R is not the correct explanation of A.

13. Assertion (A) The sale of balls on different days of a week is shown below.

Days	Number of Balls	( = 5 Balls)
Monday		
Tuesday		
Wednesday		
Thursday		

The balls sold on thursday are 15.

Reason (R) A pictograph represents data through symbols or pictures.

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

Ans. : A. Both A and R are true and R is the correct explanation of A.

14. Assertion (A) Bar graphs are represented with the help of rectangles.

Reason (R) In a bar graph, bar of uniform width can be draw vertically or horizontally with equal spacing between them.

- (A) Both A and R are true and R is the correct explanation of A.
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

Ans. : A. Both A and R are true and R is the correct explanation of A.

* State Whether The Following Sentences Are True Or False.

[6]

15. An observation occurring five times in a data is recorded as |||||, using tally marks.



Ans. : False

16. Tally marks |||| represents 4.

Ans. : True

17. Pictograph is pictorial representations of the numerical data.

Ans. : True

18. In a pictograph, if a symbol  represents 50 books in a library shelf, then the symbol  represents 25 books.

Ans. : True



19. In a pictograph, if a symbol \oplus represents 100 books in a library shelf, then the symbol 0 represents 50 books.

Ans. : False

20. in a bar graph, bar of uniform width can be draw horizontally or vertically with equal spacing between them.

Ans. : True

*** Fill In The Blanks With Correct Alternative. [6]**

21. A _____ is a collection of numbers gathered to give some meaningful information.

Ans. : data

22. The data can be arranged in a tabular form using _____ marks.

Ans. : tally

23. The tally marks $\text{||||} \text{||||} \text{||||}$ represents _____

Ans. : 13

24. Representation of data in form of pictures is called _____

Ans. : pictograph

25. In a pictograph, if a symbol * represents 20 flowers in a basket, then *** stands for _____ flowers.

Ans. : 60

26. In a bar graph, _____ can be draw horizontally or vertically.

Ans. : bar


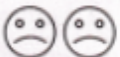
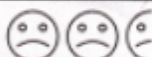

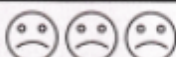

*** Answer The Following Questions In One Sentence.[1 Marks Each] [5]**

27. The number of students who were absent from the class during a week are given below:

Day	Number of absentees
Monday	10
Tuesday	20
Wednesday	25
Thursday	15
Friday	30
Saturday	20

Draw a pictograph using the symbol ☹ the which represents 10 students.

Ans. :

Day	Number of absentees
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	

28. The number of tins of paint sold by three different shops are given below:

Shops	Number of tins of paint sold
A	100
B	120
C	160

Draw a pictograph and answer the following questions:

- What is the total profit of shop B, if the profit gained on each tin is ₹100?
- If the symbol \otimes represents 20 tins, how many symbols must be drawn for shop A?
- Find the difference in the number of tins sold by shop A and shop B.






Ans. : Scale: 1 \otimes = 20

Shops	Number of tins of paint sold
A	$\otimes \otimes \otimes \otimes \otimes$
B	$\otimes \otimes \otimes \otimes \otimes \otimes$
C	$\otimes \otimes \otimes \otimes \otimes \otimes \otimes \otimes$

- Profit of shop B = $100 \times 120 = ₹ 12,000$
- 5
- 20

29. Read the following pictograph and answer the questions:

Scale: 1 = 20 books

Class	Books read by students
Class VI	
Class VII	
Class VIII	
Class IX	
Class X	

- (a) Which class has read the most number of books?
 (b) Which class has read the least number of books?
 (c) Which two classes have read the same number of books?
 (d) How many more books were read by class IX than by class X?

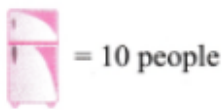
Ans. : (a) VIII, (b) X, (c) VII and IX, (d) 20

30. The following pictograph shows three different kinds of trees planted in a park. Each symbol represents 10 trees. Look at the pictograph and answer the questions given below.

- (a) How many mango trees are there in all?
 (b) How many neem trees are there in all?
 (c) How many banyan trees are there in all?
 (d) How many total trees are there in all?

Ans. : (a) 50
 (b) 40
 (c) 30
 (d) 120

31. The colours of Fridges preferred by people in a locality are given by the following pictograph.



Student Bro

Colour	Number of people
Green	
Red	
Sky blue	
White	

- (a) Find the number of people preferring sky blue colour.
 (b) How many people like white colour?
 (c) Which colour is preferred by the most of the people?
 (d) What is the ratio of the number of people preferring white colour to the number of people preferring green colour?

Ans. : (a) 60

(b) 30

(C) Sky Blue







(d) 3 : 3

*** Questions With Calculation.[2 Marks Each]**

[4]

32. The following pictograph shows the number of desktops sold by a company during a week.

The scale used is: ▲ = 5 desktops

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	

Look at the pictograph and answer the questions given below:

- (a) How many desktops were sold on Saturday?
 (b) How many desktops were sold on Monday?

Ans. : (a) 5, (b) 30,

33. The birth rate per 1000 in five countries over a period of time is given below:

Country	India	England	Germany	China	Canada
Birth rate	30	20	40	10	5

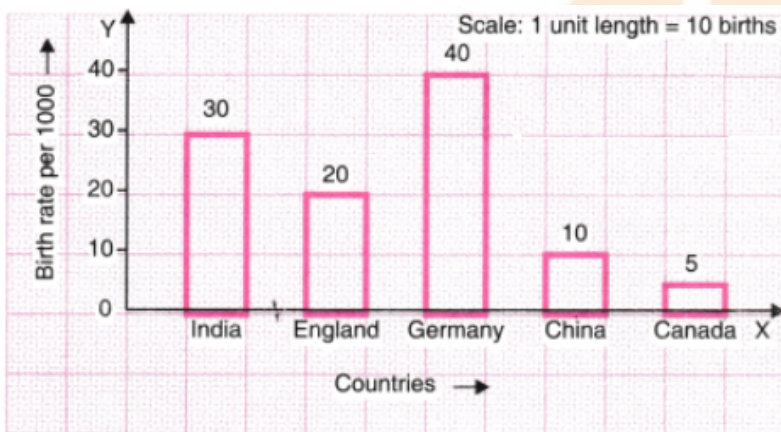
Draw a bar graph to represent the above data.

Answer the following questions.

(a) In which country is the birth rate maximum ?

(b) In which country is the birth rate minimum ?

Ans. :



(a) Germany

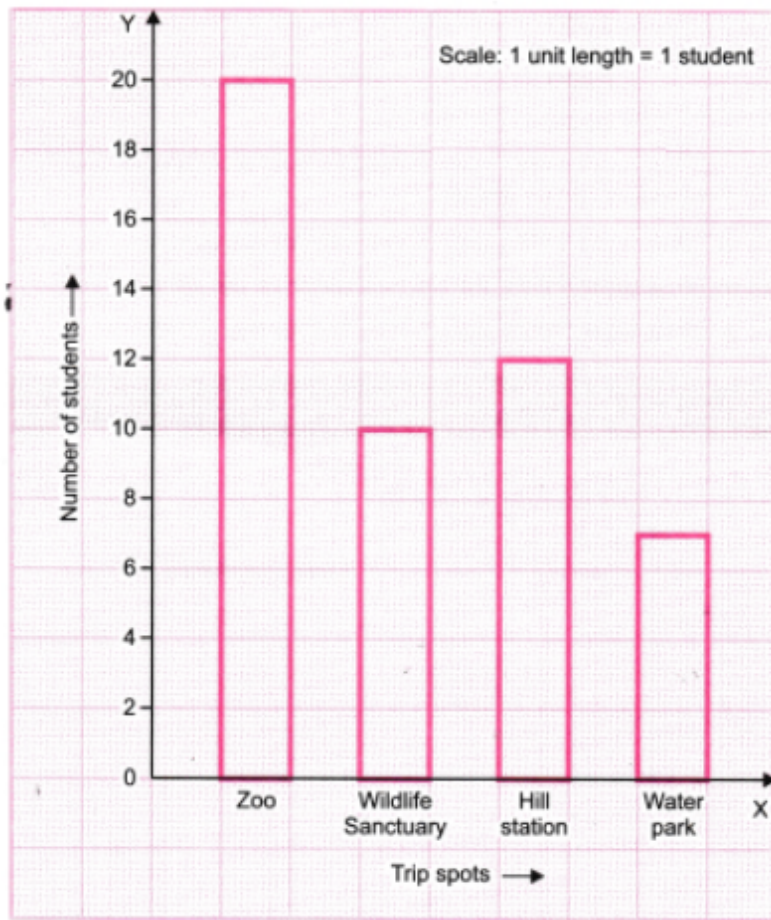
(b) Canada

* Questions With Calculation.[3 Marks Each]

[18]

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34. A class took a vote to decide where to go for a trip.



Answer the following questions:

- (a) How many students were there in the class ?
- (b) Where did the majority of the students want to go ?
- (c) Which was the second choice ?
- (d) How many students voted for water park ?

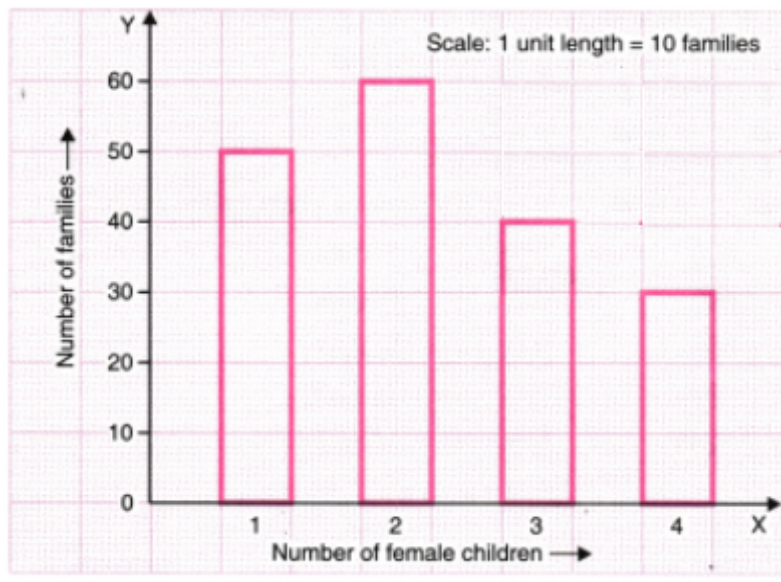
Ans. : (a) Total number of students in the class = $20 + 10 + 12 + 7 = 49$

- (b) Zoo
- (c) Hill station
- (d) 7

35. In a survey of 200 families of a locality, the number of female children in each family was recorded and the data obtained were represented by a bar graph shown below:

Student Bro





Read the bar graph carefully and answer the questions given below:

- What information does the bar graph give?
- How many families have no female child?
- How many families have 3 female children?
- How many families have 4 female children?

Ans. : (a) The bar graph shows the number of female children in each of the 200 families of a locality.

- 20
- 40
- 30

36. In the half-yearly examination, the marks scored by Alya in each subject out of 100 are given below:

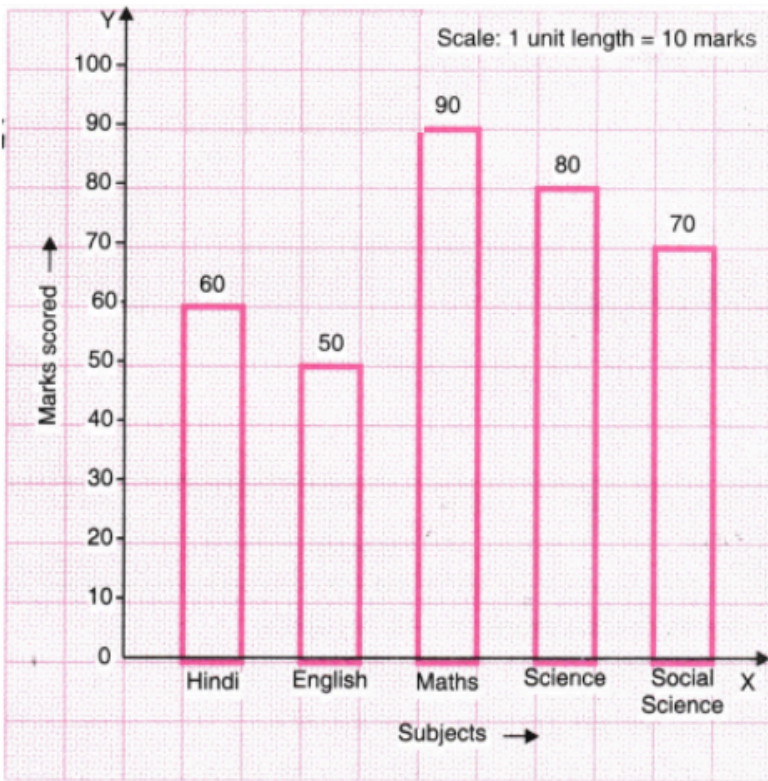
Subjects	Hindi	English	Maths	Science	Social Science
Marks scored	60	50	90	80	70

Represent the above data by a bar graph and answer the following questions:

- In which subject are the maximum marks obtained ?
- What is the difference between the maximum and minimum marks ?
- In which subject does she need to improve a lot ?

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Ans. :



(a) Maths

(b) Maximum marks = 90, Minimum marks = 50, Difference = $90 - 50 = 40$

(c) English

37. The following table shows the ages of 5 ladies. Illustrate this using a bar graph and answer the following questions.

Name of the lady	Aparna	Meenu	Shalini	Vimla	Mithlesh
Age (in years)	40	35	25	30	50

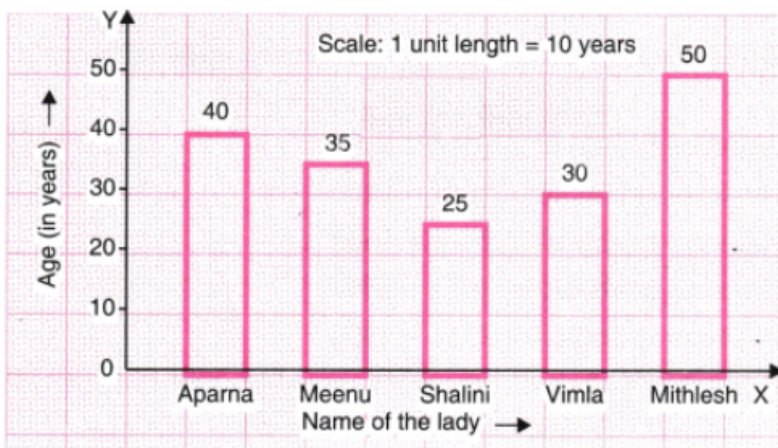
(a) Who is the youngest of all ?

(b) Who is twice as old as Shalini ?

(c) By how many years, Apama is older than Meenu.

(d) What is the ratio of the ages of Vimla and Apama ?

Ans. :



(a) Shalini is the youngest with age of 25 years

(b) Age of Shalini = 25 years

For twice her age means = $25 \times 2 = 50$ years

From the graph, Mithlesh has the age of 50 years.

Hence Mithlesh is twice as old as Shalini

(c) Age of Apama = 40 years Age of Meenu = 35 years

Difference between their age = $40 - 35 = 5$ years

Hence Apama is 5 years older than Meenu.

(d) Age of Vimla = 30 years

Age of Apama = 40 years

Hence ratio of the ages of Vimla and Apama = $\frac{30}{40} = \frac{3}{4}$ = i.e. 3 : 4

38. The following data gives the number of students of Delhi city who went abroad for study during some years:

Year	2014	2015	2016	2017	2018
Number of students	1000	1200	1600	2000	2400

Represent the above data with the help of a bar graph. ,

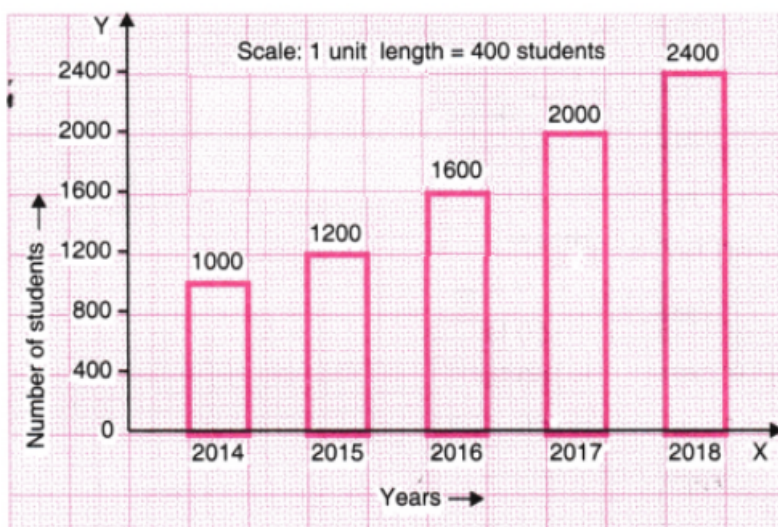
(a) Which year maximum students went to study abroad from Delhi.

(b) Which year minimum students went to study abroad from Delhi.

(c) How many total students went abroad to study between 2015 and 2017 including both the year.

(d) How many total students went abroad to study between 2014 and 2018 including both the year.

Ans. :



(a) Maximum number in the bar graph is 2400 in 2018.

Hence in 2018 maximum number of students went abroad.

(b) Minimum number in the bar graph is 1000 in 2014.

Hence in 2014 minimum number of students went abroad.

(c) Students who went to abroad in 2015 = 1200

Students who went to abroad in 2016 = 1600

Students who went to abroad in 2017 = 2000

Hence total number of students who went abroad to study between 2015 and 2017 =
 $1200 + 1600 + 2000 = 4800$

(d) Students who went to abroad in 2014 = 1000

Students who went to abroad in 2015 = 1200

Students who went to abroad in 2016 = 1600

Students who went to abroad in 2017 = 2000

Students who went to abroad in 2018 = 2400

Hence total number of students who went abroad to study between 2014 and 2018 =
 $1000 + 1200 + 1600 + 2000 + 2400 = 8200$

39. The population (in lakhs) of four major cities in India in a particular year is given below:

City	Delhi	Mumbai	Kolkata	Chennai
Population	100	150	180	90

Construct a bar graph to represent the above data.

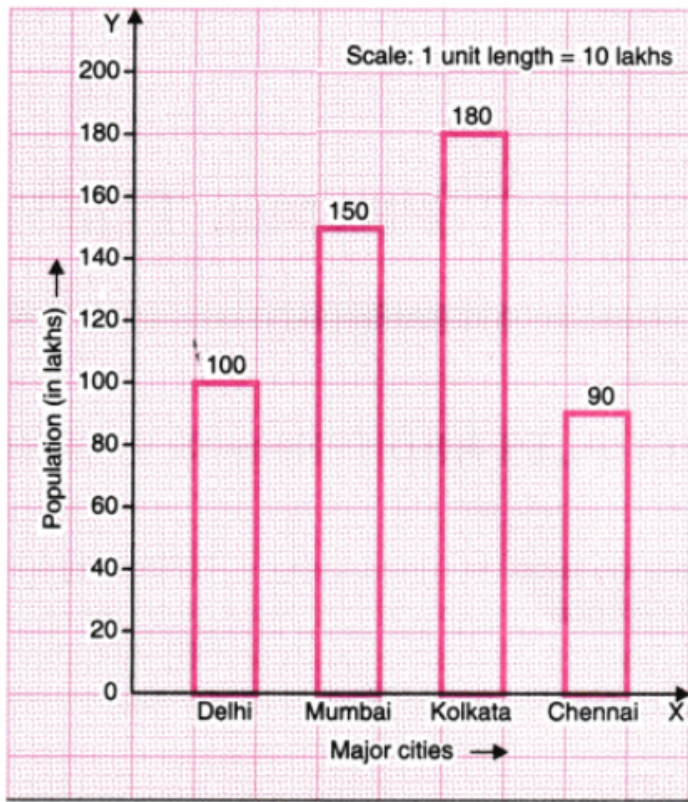
Answer the questions given below:

(a) What is the total population of all the four cities ?

(b) By how much is the population of Mumbai higher than that of Delhi ?

Student Bro

Ans. :



(a) Total population of all cities = $100 + 150 + 180 + 90$ (lakh)
= 520 lakhs

(b) Population of Mumbai = 150 lakhs

Population of Delhi = 100 lakhs

Difference = $150 - 100 = 50$ lakh

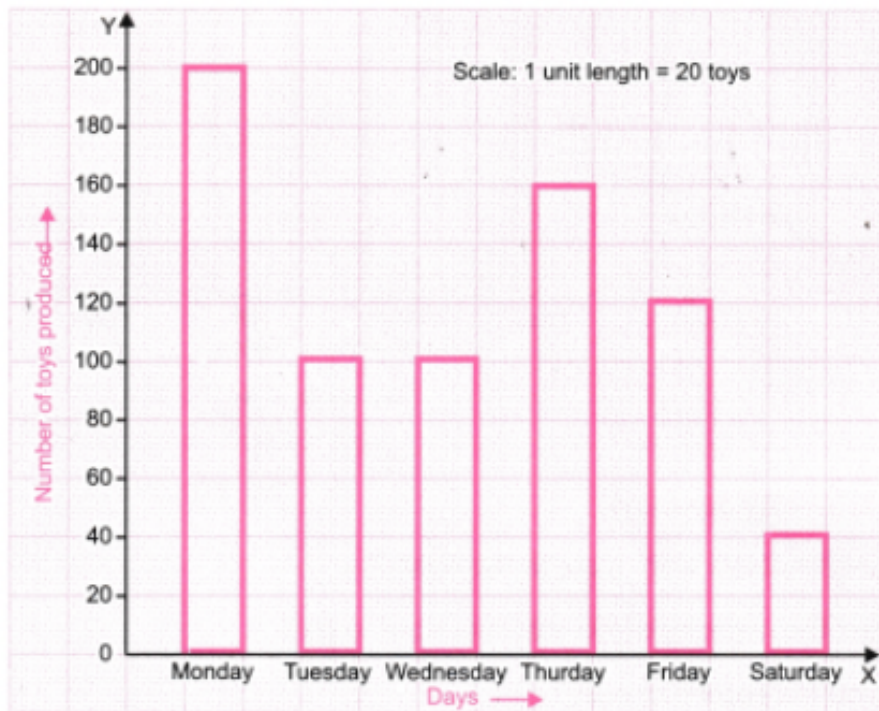
Hence by 50 lakhs population of Mumbai is more than that of Delhi.

* Questions With Calculation.[5 Marks Each]

[10]

40. The bar graph shows the number of toys produced by a factory during a certain week:

Student Bro



Answer the following questions:

- On which day were the maximum number of toys produced?
- On which day were the minimum number of toys produced?
- On which two days equal number of toys were produced?
- How many more toys were produced on Thursday than on Friday?
- What is the total number of toys produced during the week?

Ans. : (a) Clearly from the bar graph, the maximum number of toys were produced on Monday = 200

(b) Clearly from the bar graph, the minimum number of toys were produced on Saturday = 40

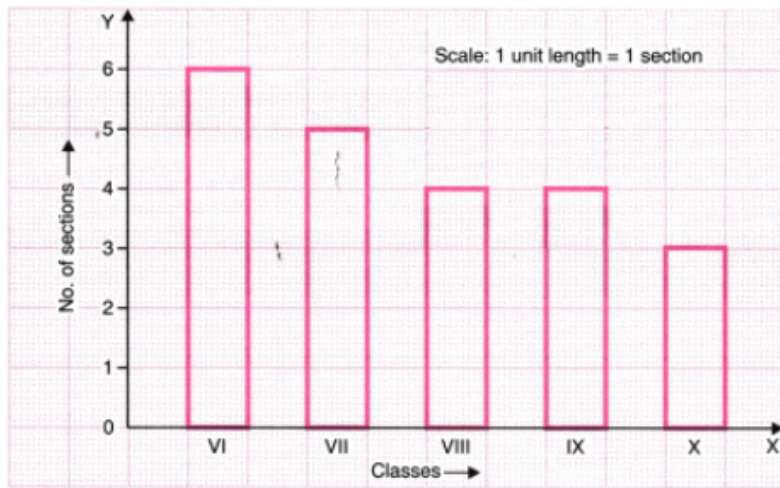
(c) Clearly from the bar graph, number of toys produced on Tuesday = number of toys produced on Wednesday = 100

(d) Clearly from the bar graph, number of toys produced on Thursday = 160 and number of toys produced on Friday = 120

Hence required number of toys = $160 - 120 = 40$

(e) Total number of toys produced during the week = $200 + 100 + 100 + 160 + 120 + 40 = 720$

41. The bar graph shown below shows the number of sections of classes VI to X in a Public School. Read the bar graph to answer the following questions:



- (a) How many sections are there in class VI?
- (b) How many sections are there in class X?
- (c) In which two classes are the same number of sections?
- (d) In which class are there 5 sections?
- (e) What is the ratio of the number of sections in class VI and class X?

Ans. : (a) 6

(b) 3

(c) VIII and IX

(d) VII

(e) No. of sections in class-VI = 6 and number of sections in class X = 3

Hence required ratio = $6/3 = 2/1 = 2:1$

* Match the following.

[4]

42.

Column I (Tally marks)	Column II (Number)
(a) 	(i) 17
(b) 	(ii) 8
(c) 	(iii) 12
(d) 	(iv) 7

Ans. : (a) → (iv), (b) → (iii), (c) → (ii), (d) → (i)
