



# SHIKSHA CLASSES

Sub. : Maths  
Std. IX (CBSE)

Question Paper  
12 : Statistics

Total Marks : 30  
Time : 1 Hr.

## Section A (Each 1 Marks)

### Multiple Choice Questions. (MCQs)

Q.1 : The statistical data are of two types. These types are.

- a) Technical data and presentation data      b) primary data and secondary data  
c) primary data and personal data      d) None of the above.

Q.2 : Class mark of the class 70 - 80 is -----.

- a) 65      b) 85      c) 75      d) 150

Q.3 : The class marks of a frequency distribution are given as follows : 15, 20, 25 -----  
The class corresponding to the class mark 20 is.

- a) 12.5 – 17.5      b) 17.5 – 22.5  
c) 18.5 – 21.5      d) 19.5 – 20.5

Q.4 : A data is such that its minimum value is 86 and range is 32, then the maximum value is -----

- a) 54      b) 811      c) 118      d) 181

Q.5 : The range of the data 25.7, 16.3, 2.8, 21.7, 24.3, 22.7, 24.9 is

- a) 22      b) 22.9      c) 21.7      d) 20.5

Q.6 : Find the class width for the grouped frequency distribution of the class intervals 1-20, 21-40, 41-60, ..

- a) 10      b) 15      c) 17      d) 20

Q.7 : What is the class mark of the class interval 90-120?

- a) 90      b) 105      c) 115      d) 120

Q.8 : The collection of information, collected for a purpose is called:

- a) Mean      b) Median      c) Mode      d) Data

Q.9 : Find the maximum value if the range is 38 and the minimum value is 82.

- a) 60      b) 76      c) 120      d) 82

**For question number 10 to 11 two statement are given one labeled Assertion and other labeled Reason select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below**

- a) both Assertion and reason are correct and reason is correct explanation for Assertion
- b) both Assertion and reason are correct but reason is not correct explanation for Assertion
- c) Assertion is correct but reason is false
- d) both Assertions and reason are false

Q.10 : **Assertion:** Range = Maximum value – Minimum value

**Reason:** The range of the first 6 multiples of 6 is 9.

Q.11 : **Assertion:** the class mark of the class interval 90 –120 is 105

Reason: Class mark = (upper limit + lower limit)/2

**Section B (Each 2 Marks)**

Q.12 : The length of 40 leaves of a plant are measured correct to one millimetre, and the obtained data is represented in the following table. Draw a histogram to represent the given data.

Length (in mm)	Number of leaves
118-126	3
127-135	5
136-144	9
145-153	12
154-162	5
163-171	4
172-180	2

Q.13 : Draw a histogram for the given data :

Class Interval	Frequency
20 – 25	21
25 – 30	22
30 – 35	50
35 – 40	75
40 – 45	67
45 – 50	51
50 – 55	18

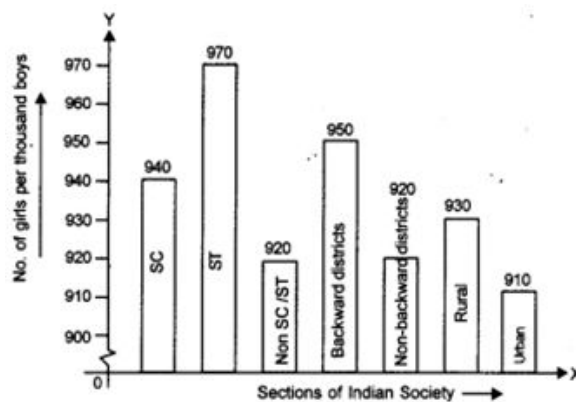
**OR**

The following data on the number of girls (to the nearest ten) per thousand boys in different sections of the Indian society is given below :

Sections of Indian Society	No. of Girls per thousand Boys
Scheduled Caste (SC)	940
Scheduled Tribe (ST)	970
Non-SC/ST	920
Backward districts	950
Non-backward districts	920
Rural	930
Urban	910

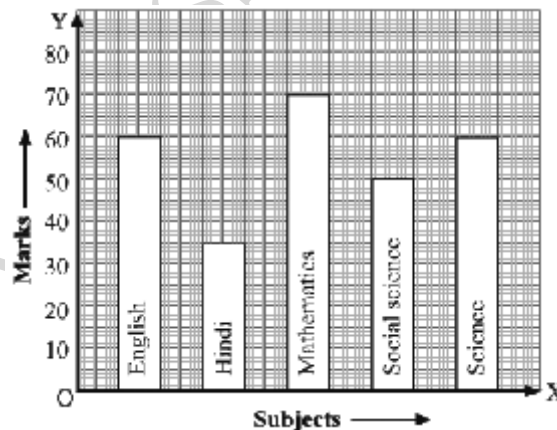
Study the bar graph carefully and answer the following question.

- In the classroom, discuss what conclusions can be arrived at from the graph.
- What steps should be taken to improve the situation ?



### Section C (Each 3 marks)

Q.14 : Look at the bar graph given below.



Read it carefully and answer the following questions.

- What information does the bar graph give?
- In which subject is the student very good?
- In which subject is he poor?

**OR**

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

No. of letters	No of Surnames
1 – 4	6
4 – 6	30
6 – 8	44
8 – 12	16
12 – 20	4

- i) Draw a histogram to depict the given information.
- ii) Write the class interval in which the maximum number of surname lie.

Q.15 : A survey conducted by an organisation for the cause of illness and death among the women between the ages 15-44 (in years) worldwide, found the following figures (in %).

S.No.	Causes	Female Fatality rate (%)
1	Reproductive health conditions	31.8
2	Neuro psychiatric conditions	25.4
3	Injuries	12.4
4	Cardiovascular conditions	4.3
5	Respiratory conditions	4.1
6	Other causes	22.0

- i) Represent the information given above graphically
- ii) Which condition is the major cause of women's ill health and death worldwide?
- iii) Try to find out with the help of your teacher, any two factors which play a major role in the cause in (ii) above being the major cause

#### Section - D

Q16 : In a school marks obtained by 80 students are given in the table. Draw a histogram. Also, make frequency polygon.

Marks obtained (Mid Value)	Number of students
305	12
315	18
325	28
335	15
345	5
355	2

**OR**

Shimpi, a class IX student received cash award of 10000 (Ten thousand) in the singing competition. Her father advised her to make a budget plan for spending this amount. She made the following plan :

S. No.	Head	Amount
1.	Donation to religious place	200
2.	Tuition fee to needy child	100
3.	Welfare of senior citizens	500
4.	Welfare of street children	800
5.	Saving in bank	4000
6.	Books for library	2000
7.	Picnic for family	1000
8.	Gift to grand parents	1100
9.	Tea party to friends	300
	<b>Total</b>	<b>10000</b>

Make a bar graph for the above data.

**From above answer the following questions :**

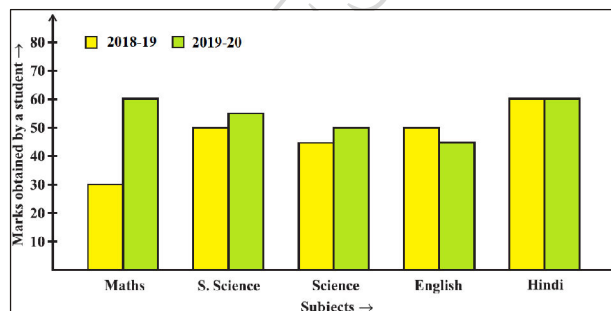
- Which mathematical concepts have been covered in this ?
- How will you rate her budget plan ? In your opinion which head has been given (a) more than deserved and (b) less than it deserved ?
- Which values are depicted in her plan?

### Section - E

**Q17 : Case Study : (Any Four)**

**4**

The Class teacher of Class X preparing result analysis of a student. She compares the marks of a student obtained in Class IX (2018-19) and Class X (2019-20) using the double bar graph as shown below:



- In which subject has the performance improved the most?**
  - Maths
  - Social Science
  - Science
  - Eng
- In which subject has the performance deteriorated?**
  - Maths
  - Social Science
  - Science
  - English
- In which subject is the performance at par?**
  - Hindi
  - Maths
  - Science
  - English
- What is the difference in Maths Subject?**
  - 5
  - 30
  - 0
  - 10
- What is the percentage of marks obtained by a student in Class X (2019-20)?**
  - 60%
  - 55%
  - 54%
  - 65%

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