

Mathematics

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(Chapter - 9) (Data Handling) (Practice Test 4)

(Class VI)

Time: 75 minutes

M. M: 25

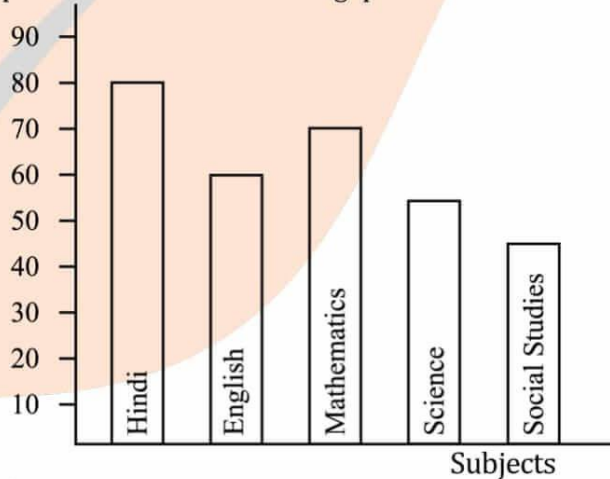
General Instructions:

1. This question paper contains four sections: A, B, C and D. Each part is compulsory.
2. Section A has 5 MCQ of one mark each.
3. Section B has 3 questions of two marks each.
4. Section C has 3 questions of three marks each.
5. Section D has 2 questions of five marks each, attempt any 1 out of 2.
6. There is no negative marking.

[Section - A]

1. A symbol is used to represent 100 flowers. How many symbols are to be drawn to show 800 flowers?
(A) 8 (B) 12 (C) 10 (D) 80
2. If * represents 5 balloons, number of symbols to be drawn to represent 60 balloons is
(A) 5 (B) 60 (C) 10 (D) 12

Observe the following bar graph and answer the following questions:



3. Minimum marks obtained in the subject:
(A) Hindi (B) English (C) SST (D) science
4. Total marks obtained in all the subjects are:
(A) 300 (B) 310 (C) 320 (D) 340
5. Marks obtained in Mathematics are:
(A) 60 (B) 75 (C) 55 (D) none of these

[Section - B]

6. State True and False. Pictographs and bar graphs are pictorial representations of the numerical data.
7. State True and False. To represent the population of different towns using bar graph, it is convenient to take one-unit length to represent one person.
8. State True and False. In a bar graph, each bar (rectangle) represents only one value of the numerical data.

[Section - C]

9. A cricketer scores the following runs in eight innings:
58, 76, 40, 35, 46, 45, 0, 100. Find the mean score.

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10. The enrolment in a school during six consecutive years was as follow:

1555, 1670, 1750, 2013, 2540, 2820

Find the mean enrolment of the school for this period.

11. The scores in mathematics test (out of 25) of 15 students is as follows:

19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20

Find the mode and median of this data. Are the same?

[Section - D]

12. The heights of 10 girls were measured in cm and the results are as follows:

135, 150, 139, 128, 151, 132, 146, 149, 143, 141

(i) What is the height of the tallest girl?

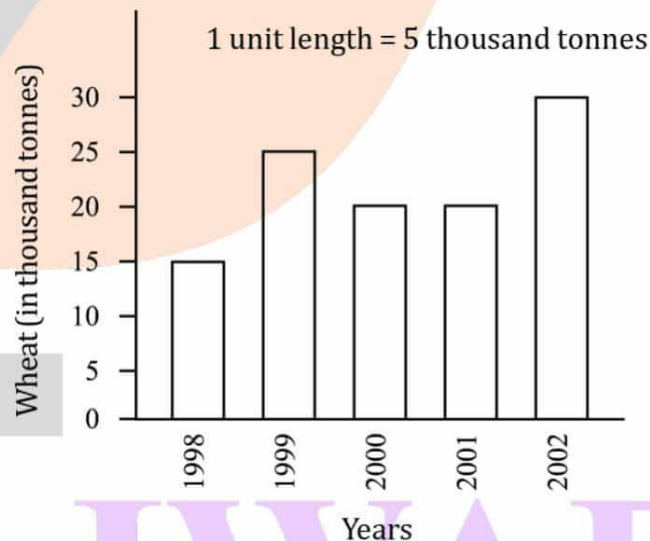
(ii) What is the height of the shortest girl?

(iii) What is the range of the data?

(iv) What is the mean height of the girls?

(v) How many girls have heights more than the mean height.

13. The bar graph given below shows the amount of wheat purchased by government during the year 1998 - 2002.



Read the bar graph and write down your observations.

(a) In which year was the wheat production maximum?

(b) In which year was the wheat production minimum?

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Answers

Section - A

1. 8
2. 12
3. SST
4. 310
5. 70

Section - B

6. True
7. False
8. True

Section-C

9. Runs scored by the cricketer are 58, 76, 40, 35, 46, 45, 0, and 100

$$\text{Mean score} = \frac{\text{totalrunsscoredinallinnings}}{\text{total number ofinnings}} = \frac{400}{8} = 50$$

Therefore, mean score is 50

10. Mean Enrollment = $\frac{1555+1670+1750+2013+2540+2820}{6} = 2058$

11. Scores of 15 students in mathematics test are
19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20
Arranging these scores in an ascending order,
5, 9, 10, 12, 15, 16, 19, 20, 20, 20, 20, 23, 24, 25, 25

Mode of a given data is that value of observation which occurs for the greatest number of times. Median of a given data is the middle observation when the data is arranged in an ascending or descending order.

As there are 15 terms in the given data, therefore, the median of this data will be the 8th observation.
Hence, median = 20

Also, it can be observed that 20 occurs 4 times (i.e., maximum number of times). Therefore, mode of this data = 20. Yes, both are same.

Section - D

12. Arranging the heights of 10 girls in an ascending order,
128, 132, 135, 139, 141, 143, 146, 149, 150, 151

(i) Height of the tallest girl = 151 cm

(ii) Height of the shortest girl = 128 cm

(iii) Range = (151 - 128) cm = 23 cm

(iv) Mean height = $\frac{135+150+139+128+151+132+146+149+143+141}{10} = 141.4\text{cm}$

(v) The heights of 5 girls are greater than the mean height (i.e., 141.4 cm) and these heights are 143, 146, 149, 150, and 151 cm.

13. (a) In 2002, production of wheat was maximum. (b) In 1998, production of wheat was minimum.