Mathematics

Practice Test Paper 1

(Ganita Prakash Part 2 | Chapter 5: Tales by Dots and Lines)

Class VIII | 2026–27

Time Allowed: 45 Minutes | Maximum Marks: 25

General Instructions

1. All 13 questions are compulsory. The paper has four sections: A, B, C and D.
2. Section A - 5 marks; Section B - 8 marks; Section C - 9 marks; Section D - 3 marks.
3. Choose one correct option in Section A. Show the necessary working in Sections B, C and D.
4. Study the given data and images carefully before answering the related questions.

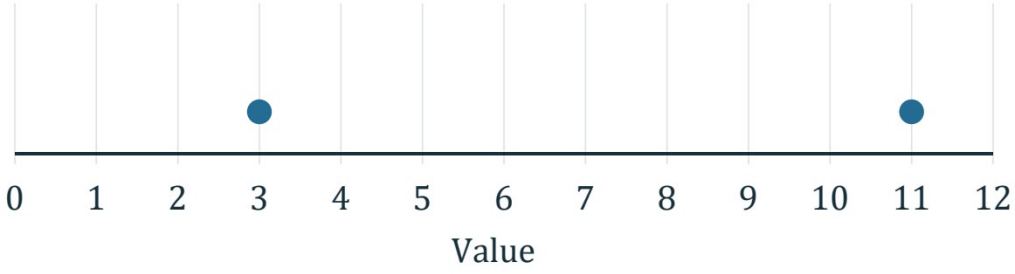
SECTION A

(5 questions × 1 mark = 5 marks)

1. To find the median of a collection, which step must be taken first?

(A) Count only distinct values
(B) Arrange the values in order
(C) Remove the largest value
(D) Multiply all the values

2. What is the mean of the two values marked in the dot plot?



(A) 6
(B) 4
(C) 8
(D) 7

3. A collection has mean 18. A new value 25 is included. The mean will:

(A) Become 25
(B) Stay 18
(C) Increase
(D) Decrease

4. Which spreadsheet formula adds the values from B2 to B6?

(A) =SUM(B2+B6)
(B) =SUM(B2:B6)
(C) =AVERAGE(B2:B6)
(D) =TOTAL(B2:B6)

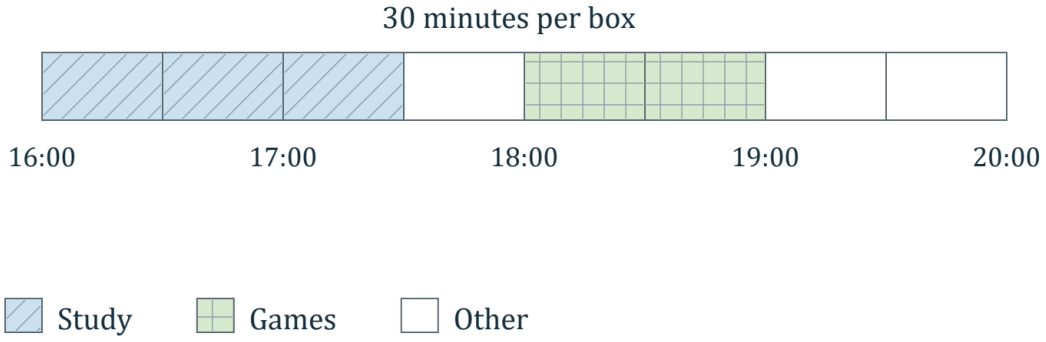
5. A line graph is especially useful for showing:

(A) Changes in a quantity over time
(B) Only the names of people
(C) Only a single total
(D) The spelling of place names

SECTION B

(4 questions × 2 marks = 8 marks)

6. The strip shows Mira's activities from 4 pm to 8 pm. Each small box is 30 minutes. Find her total study time and the time at which games begin.



7. Six plants have a mean height of 14 cm. Their heights total 84 cm. A seventh plant, 21 cm tall, is added. Find the new mean height.

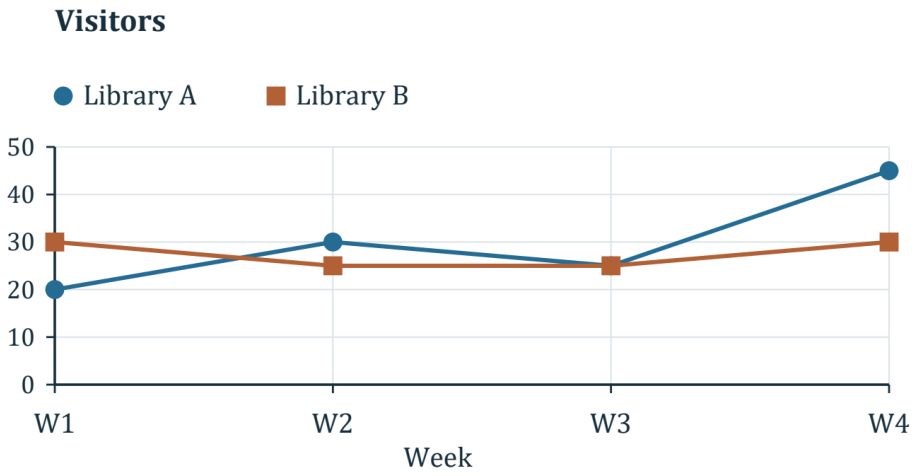
8. Find the median of 18, 9, 14, 6, 12 and 21. Show the ordered data.

9. Every score in a set is increased by 4. The old mean is 17.5. Find the new mean and explain why the number of scores is not needed.

SECTION C

(3 questions × 3 marks = 9 marks)

10. The graph compares the numbers of visitors to two libraries over four weeks. Find each library's total, identify the week with equal counts, and say which library has the greater overall total.



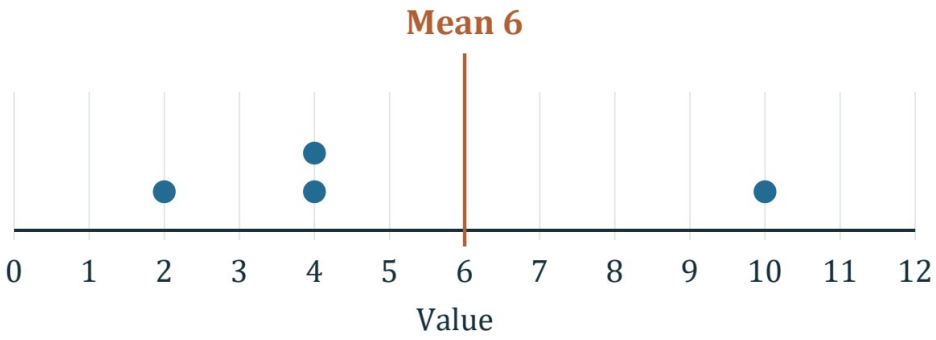
11. The mean of five numbers is 16. Four of them are 9, 13, 18 and 21. Find the fifth number, then check the mean.

12. Five children read 4, 5, 6, 7 and 28 books. Find the mean and median. Which one is closer to the number read by most of these children? Explain.

SECTION D

(Application Based Question - 3 marks)

13. There are five values with mean 6. Only four dots are visible below; one dot is missing.



(i) Find the sum of the four visible values.

(ii) Find the missing value.

(iii) After adding it, compare the total distances of the dots below and above 6.