

Mathematics

Practice Test Paper 6

(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 $\times$ 1 mark = 5 marks)

1. For the four values in the dot plot, which statement is correct?



- (A) Mean 4 and median 5 (B) Mean 5 and median 6
(C) Mean 6 and median 5 (D) Mean 5 and median 5
2. A collection's mean is 16. After each value is divided by 4, the mean is:
- (A) 16 (B) 12
(C) 4 (D) 64
3. Which information is essential for reading the numerical values on a graph?
- (A) The thickness of the paper
(B) The axis labels and scale
(C) The author's favourite colour
(D) The order in which the lines were drawn
4. An ordered collection has 18 values. Which positions determine its median?
- (A) 9th and 10th (B) 8th and 9th
(C) 10th and 11th (D) 1st and 18th

5. Which is a valid spreadsheet range covering six cells in one row?

(A) B3:B7

(B) B3:C5

(C) B3:G3

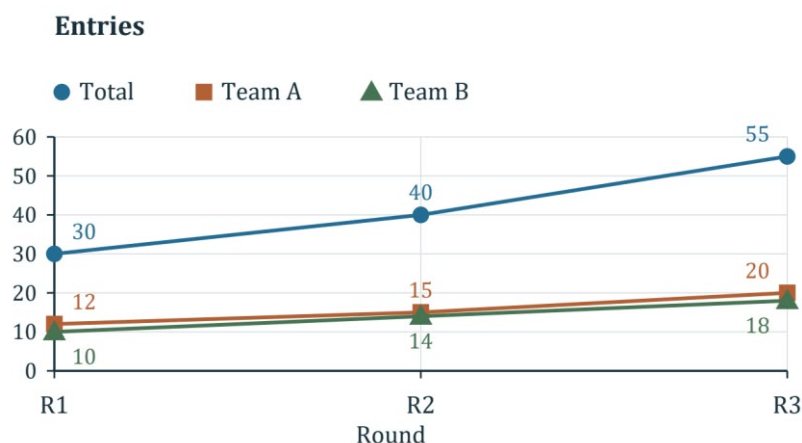
(D) B3:G4

SECTION B

(4 questions $\times$ 2 marks = 8 marks)

6. Four values have mean 11. Two of them, 7 and 15, are removed. Find the mean of the two values left.

7. The graph shows the total entries in a contest and the entries from Teams A and B. Find the entries from all other teams in Round 3. Can the graph tell us that Team C sent none?



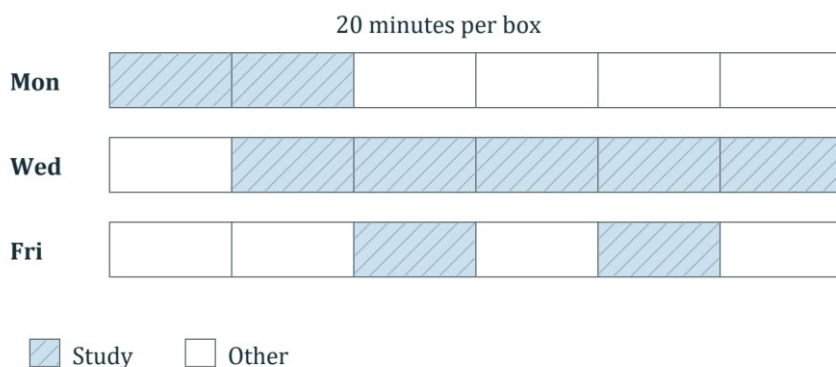
8. The median of 6, 10, 14, 18, 22 is 14. Include two distinct whole numbers, one below 6 and one above 22, without changing the median. Give an example and check it.

9. A data set has 8 values and mean 15. One value is changed from 12 to 20. Find the new mean without listing the data.

SECTION C

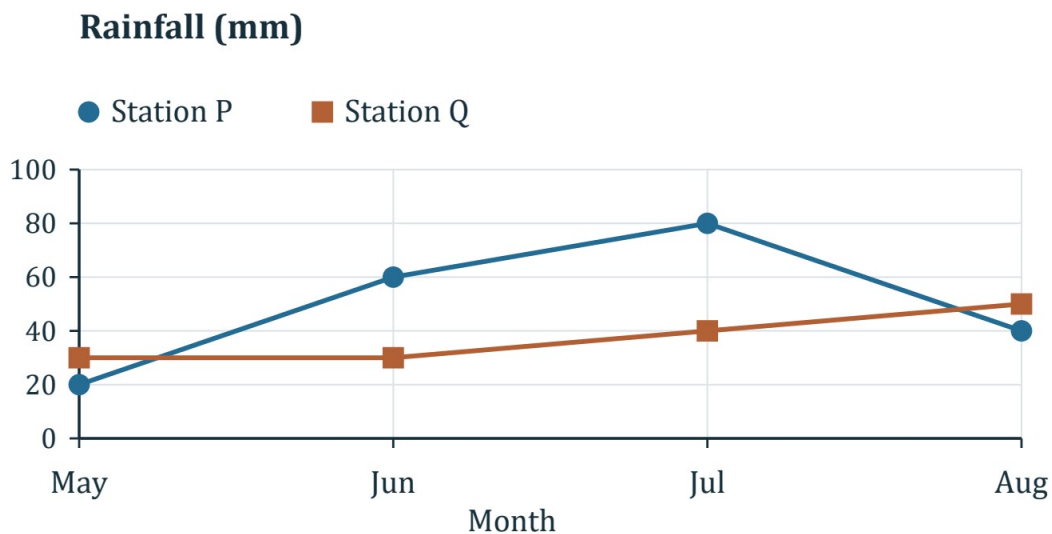
(3 questions $\times$ 3 marks = 9 marks)

10. The strips show Arjun's study periods on three days, with each box representing 20 minutes. Find each day's study time, then find the mean and median daily study time.



11. Find all possible unordered pairs of positive whole numbers x and y if the mean of 2, 5, 9, x and y is 4. Explain why your list is complete.

12. The two lines show rainfall at Stations P and Q during four months. Find the month in which their difference is greatest, calculate that difference, and compare their four-month totals.



SECTION D

(Application Based Question - 3 marks)

13. A coach records the numbers of laps completed by five runners as 3, 5, 6, 8 and 8. The last count should have been 13.

- (i) Find the recorded mean.
- (ii) Find the corrected mean.
- (iii) Find the corrected median.