

Mathematics

Practice Test Paper 5

(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.

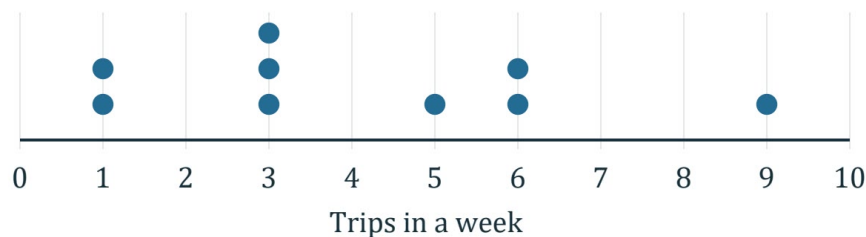
SECTION A

(5 questions $\times$ 1 mark = 5 marks)

1. Which statement is always true for the mean of two numbers?

- (A) It is a whole number (B) It is halfway between the numbers
(C) It is one of the two numbers (D) It equals the larger number

2. Each dot records one pupil's cycling trips in a week. How many pupils made at least 5 trips?



- (A) 6 (B) 4
(C) 5 (D) 3

3. If 12 values have mean 7, adding 5 to every value increases their total by:

- (A) 12 (B) 60
(C) 5 (D) 17

4. Which types of entries can a spreadsheet cell contain?

- (A) Only numbers (B) Only text
(C) Text, numbers or formulas (D) Only totals

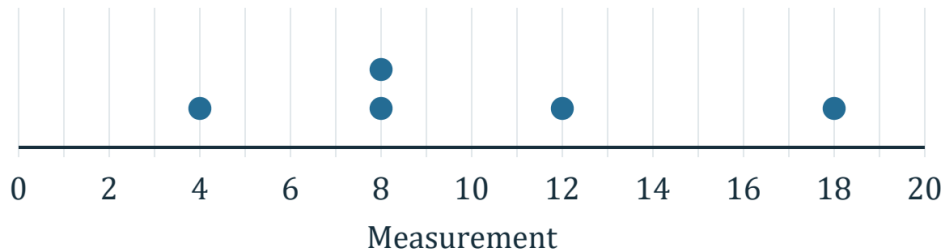
5. A frequency table lists a value 6 with frequency 4. Its contribution to the total is:

- (A) 24 (B) 10
(C) 64 (D) 6

SECTION B

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

6. The ordered data are 4, 8, 11, 15, 18. Remove 4 and find the new median. Explain why removing a value below the old median has not decreased the median.
7. Five bags contain a total of 45 marbles. A sixth bag is added, and the mean becomes 10 marbles per bag. How many marbles are in the new bag?
8. The dot plot shows five measurements. Remove the smallest and largest values. Find the mean of the three values left and compare it with the original mean.

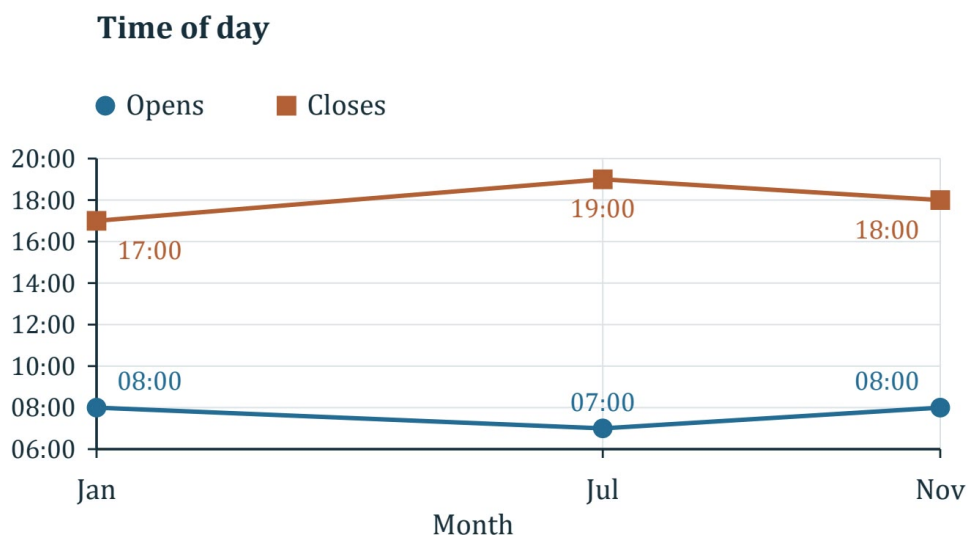


9. A mean of 24 was calculated for 10 measurements. One reading was 8 less than it should have been. Find the corrected mean.

SECTION C

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

10. Give two different sets of four positive whole numbers with median 12.5. Show the middle pair in each set. Do the means have to be the same?
11. The graph gives the opening and closing times of a reading room in three months. Find its daily opening duration in each month and identify the longest duration.



12. A report states only that the mean of seven test scores is 60. Is this enough to find their median? Use two possible score sets to support your answer.

SECTION D

(Application Based Question - 3 marks)

13. The table records visitors and purchasers at a school fair stall over five days.

Day	Mon	Tue	Wed	Thu	Fri
Visitors	12	22	16	20	30
Purchasers	8	17	10	15	25

- (i) How many visitors did not buy anything on Tuesday?
- (ii) On which day was the number of purchasers greatest?
- (iii) Find the mean number of purchasers per day.