

Mathematics

Practice Test Paper 10

(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. The graphic shows the number of books read in three months. Which month has twice April's count?

1 book symbol = 2 books



- (A) None (B) June
(C) April (D) May
2. A collection has mean 10 and total 90. How many values does it contain?
(A) 8 (B) 100
(C) 10 (D) 9
3. Which information is missing if a graph has a vertical axis marked 0, 1, 2, 3 but no quantity or unit?
(A) The order of the tick marks (B) What those numbers measure
(C) Whether 3 is greater than 2 (D) The names of the colours
4. The mean of 5, 5, 5, 5 and 20 is:
(A) 5 (B) 8
(C) 6 (D) 10

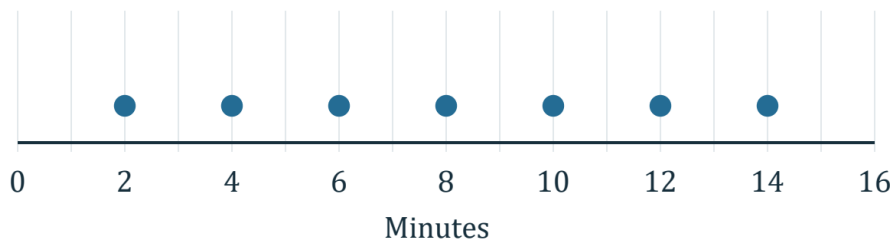
5. Which is sufficient to calculate a mean from a frequency table?

- (A) The total frequency and the sum of value $\times$ frequency
- (B) Only the largest value
- (C) Only the median
- (D) Only the distinct values

SECTION B

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

6. The dot plot records seven reading times. Find the median. If the longest time increases from 14 to 28 minutes, does the median change?



7. A group of six numbers has mean 7. A seventh number is included, making the mean 8. By how much does the new number exceed the old mean?

8. A data set has mean 18. Each value is multiplied by 5. Use the total-and-count idea to explain the new mean.

9. Each row of the grid must have mean 12. Find x and y .

Row	First number	Second number	Third number
1	15	8	13
2	10	x	14
3	11	16	y

SECTION C

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

10. Can three positive whole numbers have mean 4.5? Explain. Then give four positive whole numbers with that mean.

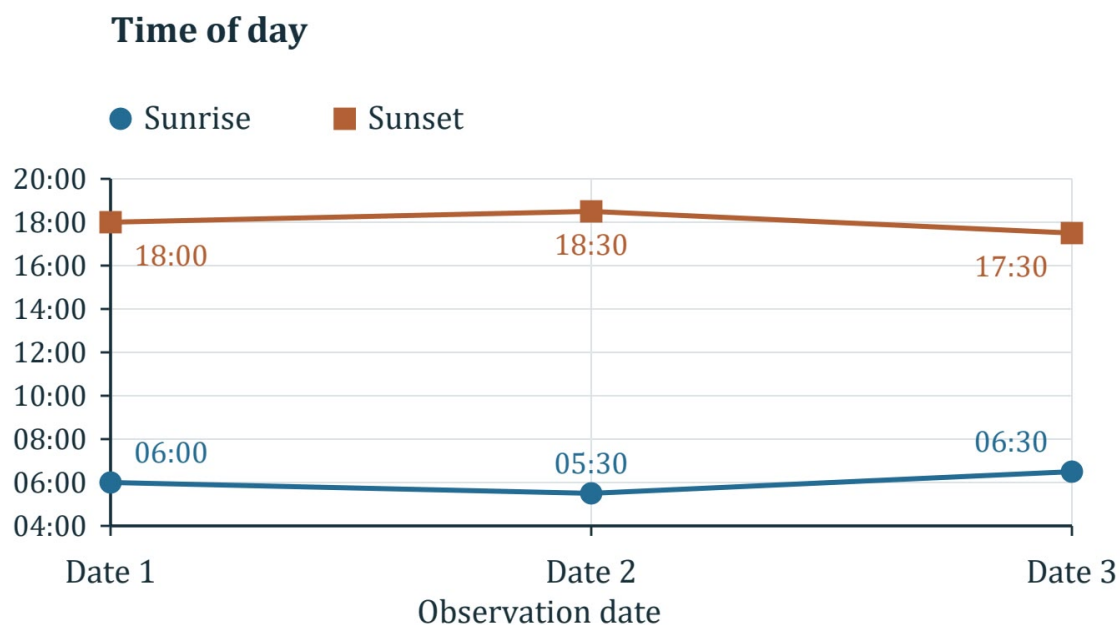
11. The first four values in an ordered list are 2, 4, 7, 10. Three more distinct positive whole numbers are to be placed after them. Give two completed lists with different means but the same median.

12. A report compares the average time spent on games by two age groups. What information about how the data was collected would help you judge the comparison? Give three relevant questions.

SECTION D

(Application Based Question - 3 marks)

13. The two lines show sunrise and sunset times at a place on three observation dates. Use the labelled times.



- (i) Find the daylight duration on Date 1.
- (ii) On which date is daylight longest?
- (iii) Compare the longest and shortest daylight durations.