

Mathematics

Practice Test Paper 8

(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.

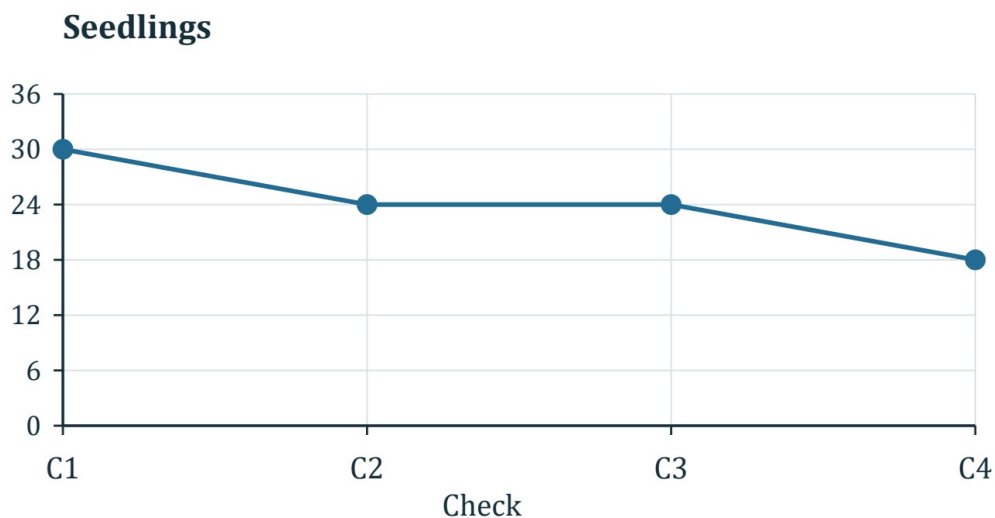
SECTION A

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

1. All five values in a collection equal 13. Its mean and median are:

- (A) Mean 65, median 13 (B) Both 65
(C) Mean 13, median 5 (D) Both 13

2. The graph shows the number of seedlings surviving at four checks. Which statement matches the graph?



- (A) The count falls by the same amount each time
(B) The count increases at every check
(C) The count stays constant throughout
(D) The count decreases, then stays constant, then decreases

3. For which list is the median not one of the listed values?

- (A) 1, 4, 8, 9 (B) 1, 4, 4, 9
(C) 2, 4, 5 (D) 7, 7, 7, 7

4. A line graph includes data for 2020 to 2024 only. Which claim needs more information?

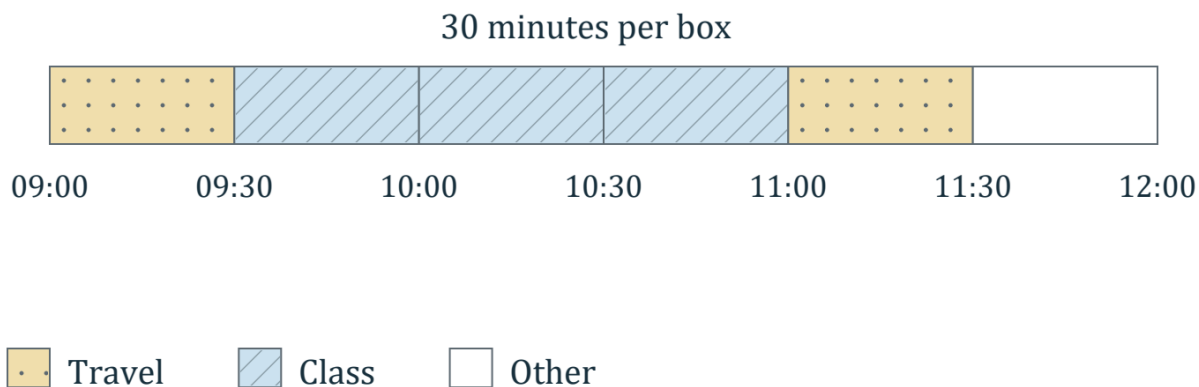
(A) The highest value ever recorded was in 2023

(B) The value in 2022 was 40

(C) The highest plotted value is in 2023

(D) The value fell from 2023 to 2024

5. The activity strip covers 9 am to noon in 30-minute boxes. How many minutes are shown for travelling?



(A) 60

(B) 30

(C) 45

(D) 90

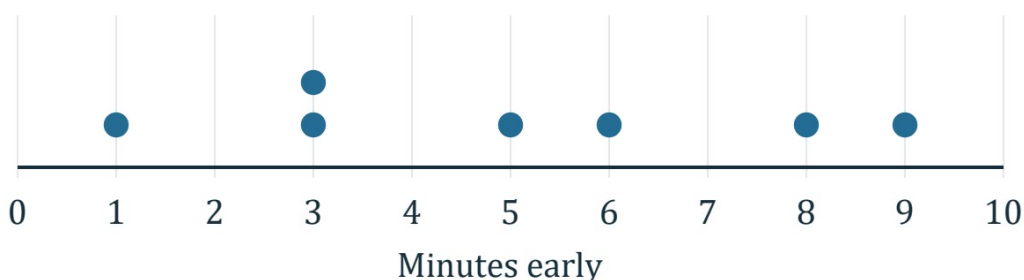
SECTION B

(4 questions × 2 marks = 8 marks)

6. The mean of 12 measurements is 8.5. A new measurement equal to the old mean is added. Find the new total and mean.

7. Find a value x so that the mean of 6, 10, x and 20 is 12. Then state whether x is above or below the median of the completed collection.

8. The dot plot shows the number of minutes by which seven pupils arrived early. Find the median and the number arriving at least 6 minutes early.



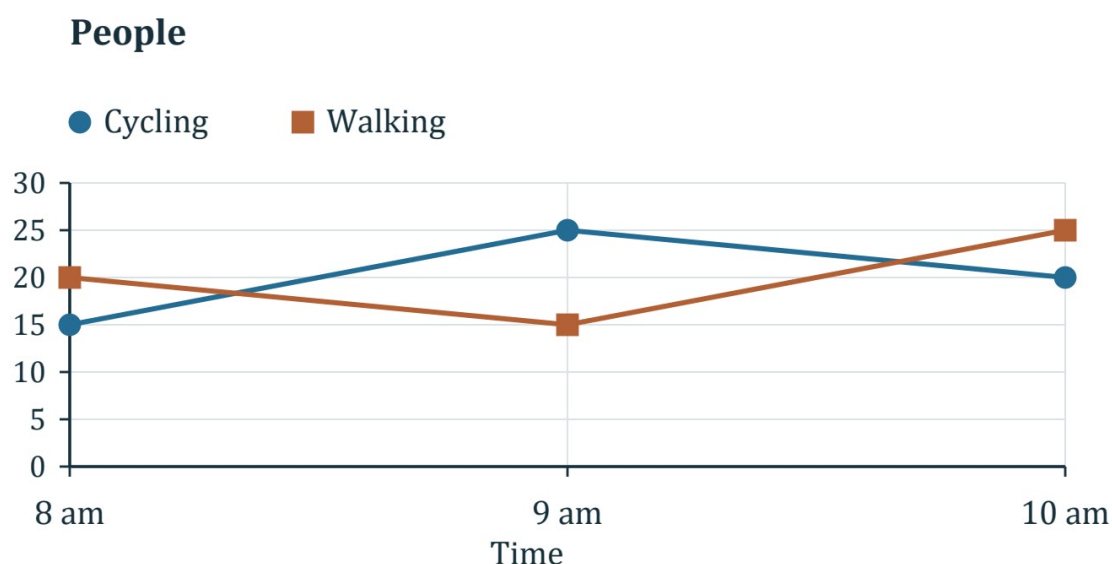
9. A list has mean 20. Every value is first doubled and then reduced by 5. Find the new mean and explain the two steps.

SECTION C

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

10. Can removing the greatest value ever increase the mean of a collection with at least two values? Explain, and state when removing it leaves the mean unchanged.

11. The graph compares cycling and walking counts at a park entrance. Find the total count for each type over the three checks, then decide whether the graph supports the claim that cycling is always more common.



12. An ordered list is 2, 5, 8, 11, 14, 17. One number is removed. Give one removal that makes the median 8 and one that makes it 11. Show the remaining middle values.

SECTION D

(Application Based Question - 3 marks)

13. A teacher records mean daily reading times of 20, 30 and 40 minutes for three equal-sized groups of pupils.

(i) Find the mean across all three groups.

(ii) Would the same calculation necessarily work if the group sizes were unequal?

(iii) What extra information would be needed for unequal groups?