

Mathematics

Practice Test Paper 4

(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. A set of values has mean 9. An extra value equal to 9 is included. The new mean is:

- (A) It cannot be found (B) 8
(C) 10 (D) 9

2. The median of 4, 7, 12 and 17 is:

- (A) 7 (B) 9.5
(C) 12 (D) 10

3. Which value balances the dots, so that the total distances on its two sides are equal?



- (A) 6 (B) 7.5
(C) 8 (D) 7

4. In the spreadsheet range A3:A8, how many cells are included?

- (A) 11 (B) 5
(C) 6 (D) 8

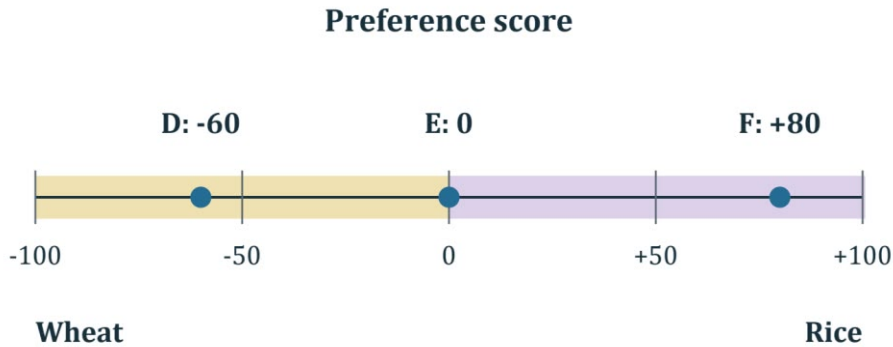
5. Why can different marker shapes help when two lines are printed in black and white?

- (A) They change the data values
(B) They identify the two data series without relying on colour
(C) They make all values equal
(D) They remove the need for axes

SECTION B

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

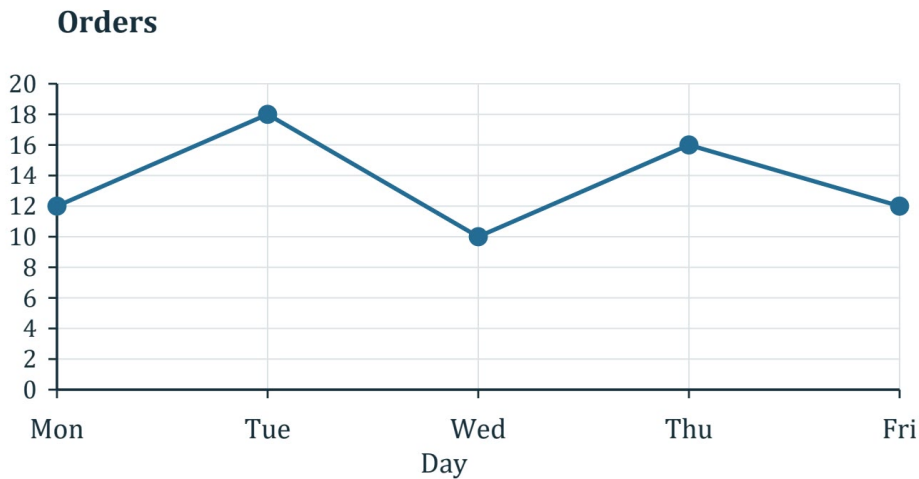
6. The image places three regions on a rice–wheat preference scale. Which region is balanced between the two foods? Does F’s score of +80 mean that exactly 80% of its people eat rice? Explain.



7. Nine values have mean 20. The value 28 is removed. Find the mean of the remaining values.

8. Asha measured five lengths and found a mean of 8.6 cm. Every reading was 0.4 cm too small. Find the corrected mean and the increase in the total of the readings.

9. A student says the number of canteen orders did not change during the week because Monday and Friday have the same value. Use the graph to correct the statement and find the largest fall between consecutive days.



SECTION C

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

10. The mean of the first ten positive even numbers is 11. Find the mean of the first ten positive odd numbers by comparing corresponding terms. Explain why the mean of two even numbers need not be even.

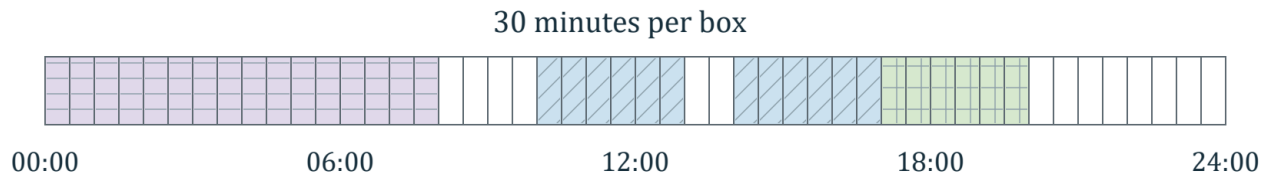
11. The mean of six numbers is 13. Four numbers are 8, 11, 14 and 19. The remaining two numbers are equal. Find them and check the total.

12. The data 2, 6, 10 are changed to 0, 7, 11. Compare their means and medians. Does an unchanged total guarantee an unchanged median?

SECTION D

(Application Based Question - 3 marks)

13. The strip records one full day. Each small box represents half an hour; the key identifies the activities.



 Sleep  Study  Play  Other

- (i) How many hours were spent sleeping?
- (ii) How many hours were spent studying?
- (iii) Compare the time spent on “Other” activities with the sleeping time.