

Mathematics

Practice Test Paper 2

(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 mean of eight values is 12. What is their sum?

- (A) 48 (B) 20
(C) 120 (D) 96

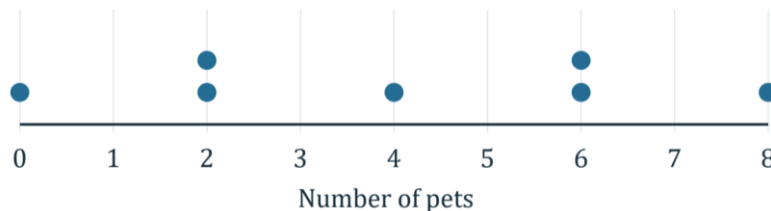
2. Removing a value smaller than the mean from a collection with at least two values will:

- (A) Make the mean zero (B) Raise the mean
(C) Always leave it unchanged (D) Lower the mean

3. Which cell is in column D and row 7 of a spreadsheet?

- (A) 7D (B) 7:D
(C) D:7 (D) D7

4. Each dot represents one child's number of pets. What is the median number of pets?



- (A) 2 (B) 6
(C) 3 (D) 4

5. If every value in a collection is multiplied by 3, its mean is:

- (A) Divided by 3 (B) Increased by 3
(C) Unchanged (D) Multiplied by 3

SECTION B

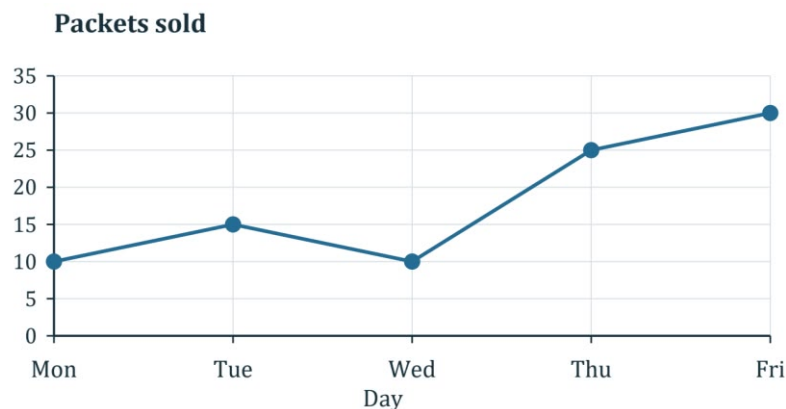
(4 questions $\times$ 2 marks = 8 marks)

6. A class has 20 pupils with a mean height of 142 cm. Two new pupils are 138 cm and 146 cm tall. Will the mean change? Show why.

7. The table records the number of books borrowed by ten pupils. Find the mean number of books. Why is averaging only 1, 2 and 4 incorrect?

Books borrowed	1	2	4
Number of pupils	2	5	3

8. The line graph shows how many seed packets a school sold on five days. During which interval did sales rise the most, and by how many packets?



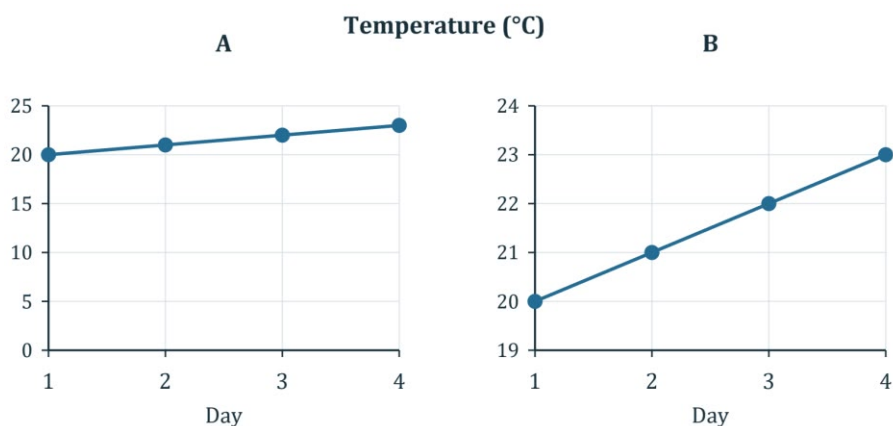
9. A collection has mean 30. Two values are added without changing the mean. One new value is 24. Find the other value.

SECTION C

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

10. The data are 3, 6, 8, 10 and 13. Find the median before and after adding 15. Then find the median after adding 1 to the original data instead.

11. Two graphs show the same four daily temperatures using different vertical scales. Do they show different temperature changes? State the actual change from Day 1 to Day 4 and explain the different appearances.



12. Five values have mean 18. One was recorded as 26 instead of 16. Find the correct total and mean, and state the change in the mean.

SECTION D

(Application Based Question - 3 marks)

13. Cells C2, C3, C4 and C5 contain 12, 18, 16 and 14 respectively.

- (i) Write a formula to find their total.
- (ii) Write a formula to find their mean.
- (iii) Find the value returned by the mean formula.