Mathematics

Practice Test Paper 1

(Ganita Prakash Part 2 | Chapter 3: Proportional Reasoning–2)

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 images and tables carefully before answering the related questions.

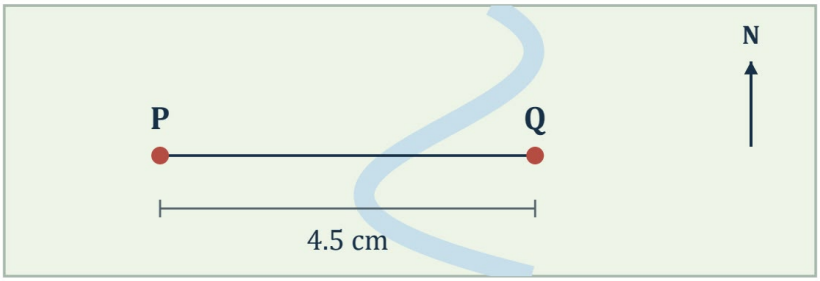
SECTION A

(5 questions × 1 mark = 5 marks)

1. Which ratio is equivalent to 3 : 5?

(A) 6 : 8
(B) 9 : 15
(C) 12 : 15
(D) 5 : 3

2. The map distance between P and Q is marked below. What is the corresponding geographical distance?



RF 1 : 20,00,000

(A) 9 km
(B) 45 km
(C) 90 km
(D) 900 km

3. Which stays constant when two positive quantities are in inverse proportion?

(A) Their sum
(B) Their difference
(C) Their product
(D) Their quotient

4. A category occupies one-quarter of a pie chart. Its sector angle is:

(A) 45°
(B) 60°
(C) 90°
(D) 180°

5. In the ratio red : blue : white = 2 : 3 : 5, white paint forms what fraction of the total?

(A) $\frac{1}{5}$ (B) $\frac{3}{5}$

(C) $\frac{1}{2}$ (D) $\frac{2}{3}$

SECTION B

(4 questions × 2 marks = 8 marks)

6. Divide 84 counters among Asha, Bala and Chetan in the ratio 2 : 3 : 7.

7. Decide whether x and y are in inverse proportion. Show the calculation that supports your answer.

x	2	6	12
y	18	6	3

8. A 5 cm line on a map represents 2 km on the ground. Write its RF in simplest form.

9. Food is enough for 48 students for 15 days. If 60 students use it from the start, how long will it last? Assume equal daily consumption and no waste.

SECTION C

(3 questions × 3 marks = 9 marks)

10. One worker can finish a job in 3 hours and another in 6 hours. Find the time they take together, assuming steady rates and no interference.

11. The table shows the activity chosen by each child. Find the total number of children and the sector angles needed for a pie chart.

Activity	Reading	Drawing	Games
Children	18	12	10

12. A motorbike covers a fixed route in 5 hours at 36 km/h. Find the speed needed to cover the route in 3 hours, and explain the type of proportion.

SECTION D

(Application Based Question - 3 marks)

13. A box contains 80 coins. The numbers of ₹10, ₹5, ₹2 and ₹1 coins are in the ratio 4 : 3 : 2 : 1.

(i) Find the number of ₹10 coins.

(ii) Find the number of ₹5 coins.

(iii) Find the total value of all the coins.