Mathematics

Practice Test Paper 2

(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. What does RF 1 : 50000 mean when a distance on the map is measured in centimetres?

(A) 1 cm represents 50000 km

(B) 1 cm represents 50000 cm

(C) 50000 cm represents 1 cm

(D) 1 cm represents 50 cm

2. What is the simplest form of 12 : 18 : 30?

(A) 2 : 3 : 5 (B) 4 : 6 : 5

(C) 6 : 9 : 15 (D) 1 : 2 : 3

3. For a fixed amount of work, doubling the number of equally efficient workers makes the time:

(A) Double (B) Half

(C) Four times (D) Unchanged

4. Which relation fits every column of the table?

x	2	4	8
y	3	6	12

(A) $y = x + 1$ (B) $xy = 6$

(C) $y = \frac{3}{2}x$ (D) $y = 2x$

5. A sector of 72° represents what percentage of a complete pie chart?

(A) 10% (B) 20%

(C) 25% (D) 72%

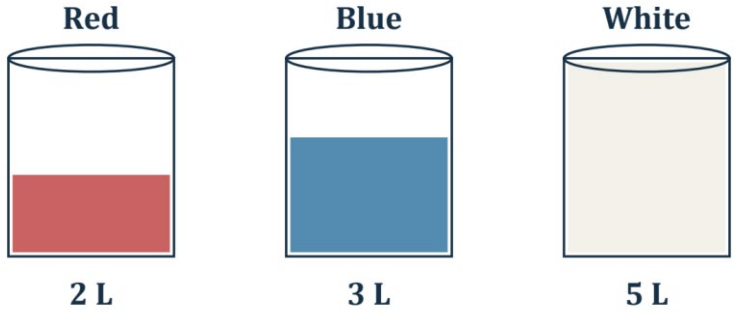
SECTION B

(4 questions × 2 marks = 8 marks)

6. Two towns are 42 km apart geographically. How far apart should they be on a map with RF 1 : 700000?

7. Seven workers complete a fixed task in 12 days. How many days will six workers take at the same individual rate?

8. The containers show the paint volumes in one mixture. Find the red, blue and white volumes needed to make 20 L of the same mixture.



9. At a steady rate, a team packs 240 boxes in 4 hours. Find how many boxes it packs in 7 hours and state the type of proportion.

SECTION C

(3 questions × 3 marks = 9 marks)

10. A 165-unit concrete mixture uses cement, sand and gravel in the ratio 1 : 1.5 : 3. Find the amount of each component.

11. A pupil plans pie-chart angles of 160°, 120°, 80° and 40°. Explain the error and find corrected angles in the same ratio.

12. Food can feed 30 campers for 20 days. After 5 days, 10 campers leave. How many further days will the food last? Assume equal daily portions and no waste.

SECTION D

(Application Based Question - 3 marks)

13. The table lists books in a library. Every book belongs to exactly one of these language groups.

Language	Hindi	English	Marathi
Books	120	80	40

(i) Find the total number of books.

(ii) Find the Hindi sector angle for a pie chart.

(iii) A second library has the same proportions and 90 Hindi books. How many books does it have in total?