Mathematics

Practice Test Paper 7

(Ganita Prakash Part 2 | Chapter 1: Fractions in Disguise)

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 graphs carefully before answering the related questions.

SECTION A

(5 questions × 1 mark = 5 marks)

1. In a collection, 18 objects out of 120 are blue. What percentage are blue?

(A) 6.67% (B) 12%
(C) 18% (D) 15%

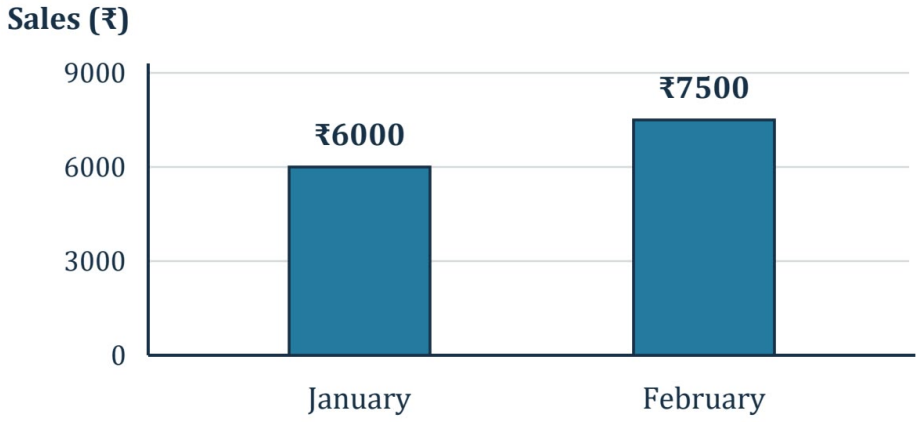
2. A shop offers "Buy 3 and get 1 free" on identical items. What is the effective discount on the four items?

(A) 25% (B) 33%
(C) 75% (D) 3%

3. A bicycle is sold below its cost price. Which statement must be true?

(A) The marked price is below cost (B) There is a profit
(C) There is a loss (D) The discount is zero

4. Read the sales graph. February sales are what percentage of January sales?



(A) 25% (B) 125%
(C) 80% (D) 150%

5. At 4% per annum without compounding, which expression gives the interest on ₹P for three years?

(A) $1.12P$ (B) $4P \times 3$

(C) $0.04P$ (D) $0.12P$

SECTION B

(4 questions × 2 marks = 8 marks)

6. Convert 2.5% to a fraction in simplest form and to a decimal. Use either form to find 2.5% of 800.

7. A fruit seller buys 50 kg of mangoes at ₹40 per kg. Ten per cent of the mangoes spoil. At what price per kg must the remaining mangoes be sold to recover the cost exactly? Give the exact answer.

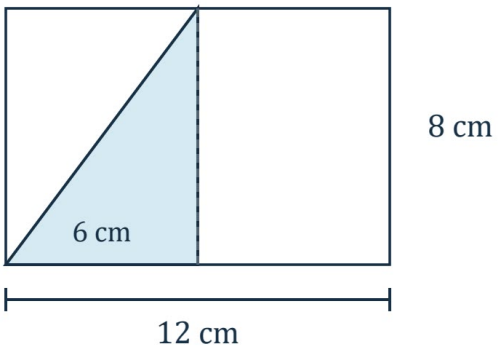
8. The marked price of a toy is ₹600. A discount of ₹90 is allowed. The shopkeeper still makes a profit of ₹60. Find the discount percentage and the cost price.

9. An investment of ₹7500 grows to ₹7950 in one year. Find the interest and the annual interest rate.

SECTION C

(3 questions × 3 marks = 9 marks)

10. Use the dimensions in the diagram to find the area of the rectangular display, the shaded triangular area and the percentage shaded.



11. Shop A offers ₹75 off a purchase, while Shop B offers 15% off the same marked total. Find the purchase value at which the discounts are equal. Which shop is cheaper for purchases of ₹400 and ₹600?

12. A village has 2400 residents. Its population falls by 5% in each of two years. Find the population after each year and explain why the overall fall is less than 10%.

SECTION D

(Application Based Question - 3 marks)

13. In an election, 640 valid votes are cast. The winner receives 25% of them and every other candidate receives fewer votes than the winner.

(i) How many votes does the winner receive?

(ii) How many votes do the other candidates receive altogether?

(iii) Can there be only four candidates in total? Give a numerical reason.