

RIMC Mathematics — Model Paper

PRACTICE PAPER

Exam: RIMC Entrance (Class VIII) — Mathematics

Time: 1½ hours

Max. marks: 200 (8 each)

Questions: 25

NAME

ROLL NO. / DATE

Instructions

1. Answer all 25 questions. Show your working — steps carry marks.
2. Calculators are not allowed.
3. The answer key gives full working.

MATHEMATICS (25 × 8 MARKS)

1. Add: $\frac{3}{4} + \frac{2}{3}$ [8 marks]

2. Find 12% of 450. [8 marks]

3. Find the HCF and LCM of 24 and 36. [8 marks]

4. A shopkeeper buys a watch for ₹450 and sells it for ₹540. Find his profit per cent. [8 marks]

5. Find the simple interest on ₹5000 at 8% per annum for 3 years. [8 marks]

6. A rectangle is 15 m long and 9 m wide. Find its perimeter and area. [8 marks]

7. Two angles of a triangle are 65° and 55° . Find the third angle. [8 marks]

8. Solve: $3x - 5 = 16$ [8 marks]

9. If 2 kg of rice cost ₹90, what is the cost of 3 kg? [8 marks]

10. Find the square root of 144 by prime factorisation. [8 marks]

11. What is $\frac{2}{5}$ of 60? [8 marks]

12. Simplify: $-8 + 15 - (-3)$ [8 marks]

13. Multiply: 0.25×0.4 [8 marks]

14. Divide 84 sweets equally among 6 children. How many does each get? [8 marks]

15. Find the circumference of a circle of radius 14 cm. ($\pi = \frac{22}{7}$) [8 marks]

16. Find the volume of a cuboid $12 \text{ cm} \times 8 \text{ cm} \times 5 \text{ cm}$. [8 marks]

17. A boy scored 45 marks out of 60. Express this as a percentage. [8 marks]

18. Divide ₹720 between Ram and Shyam in the ratio 5 : 3. [8 marks]

19. The average of five numbers is 18. Find their sum. [8 marks]

20. A train travels 240 km in 4 hours. Find its speed. [8 marks]

21. Find the value of $2^3 \times 3^2 \div 6$. [8 marks]

22. If 5 workers finish a job in 12 days, in how many days will 6 workers finish it? [8 marks]

23. Convert 3.75 into a fraction in lowest terms. [8 marks]

24. The angles of a quadrilateral are in the ratio 1 : 2 : 3 : 4. Find the largest angle. [8 marks]

25. Write the next two terms: 3, 6, 12, 24, ... [8 marks]

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