

CLASS VII MATHEMATICS SAMPLE PAPER – 2

Time: 3 Hours **Maximum Marks:** 80

Instructions: Attempt all questions. Show calculations. No calculators.

Section A – MCQs (10×1)

1. Reciprocal of $\frac{5}{8}$ is ____.
2. $(-12) \times (-4) =$ ____.
3. 15% of 400 = ____.
4. Sum of angles in a triangle = ____.
5. A circle has how many diameters?
6. Value of x if $x - 9 = 18$.
7. Median of 2, 5, 7, 9, 12.
8. Which is a proper fraction?
9. Perimeter formula of rectangle.
10. Cube of 4.

Section B – Very Short (5×2)

11. Find $\frac{7}{8}$ of 64.
12. Add -15 and 28.
13. Convert 3.75 to fraction.
14. Name three types of triangles.
15. Write first six prime numbers.

Section C – Short (6×3)

16. Simplify $36 \div 3 \times 4 + 8$.
17. Solve $4x - 5 = 27$.
18. Find profit if $CP = ₹560$ and $SP = ₹645$.
19. Find area of parallelogram base 18 cm, height 11 cm.
20. Draw a circle of radius 4 cm and mark its diameter.
21. Draw a bar graph for marks: 45, 50, 40, 35, 48.

Section D – Long (3×5)

22. A cyclist travelled 18 km daily for 12 days and 24 km daily for next 8 days. Find total distance and average per day.
23. A rectangular floor $12 \text{ m} \times 9 \text{ m}$ is tiled using square tiles of side 30 cm. Find number of tiles required.
24. A school purchased 240 books equally for 8 classes. Each class distributed books equally among 10 groups. How many books per group?

Section E – HOTS (2×6)

25. Explain with examples the relationship between fractions, decimals and percentages.
26. Two rectangles have equal area but different dimensions. Can they have different perimeters? Justify.