

CLASS VII MATHEMATICS SAMPLE PAPER – 1

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

Instructions: Attempt all questions. Show necessary steps. No calculators.

Section A – MCQs

1. The additive inverse of -15 is ____.
2. Which is a rational number? (a) $\frac{3}{5}$ (b) $\sqrt{2}$ (c) π (d)None
3. 25% of 200 = ____.
4. Supplementary angles sum to ____.
5. Value of 7^2 = ____.
6. Mean of 2,4,6 is ____.
7. A triangle with all equal sides is called ____.
8. Which expression is algebraic? $x+5$
9. Perimeter of square side 8 cm = ____.
10. Integer between -2 and 2.

Section B – Very Short

11. Simplify $(-18)+25$.
12. Find $\frac{3}{4}$ of 64.
13. Convert 0.45 into a fraction.
14. Draw complementary angles.
15. Write first five multiples of 9.

Section C – Short

16. Evaluate $48 \div 6 \times 5$.
17. Solve: $5x+7=32$.
18. Find simple interest on ₹5000 at 8% for 2 years.
19. Find area of triangle base 14 cm height 9 cm.
20. Construct a line segment of 7.5 cm and its perpendicular bisector.
21. Prepare frequency table: 2,3,4,4,5,5,5,6,7,7.

Section D – Long

22. A shopkeeper bought 150 notebooks at ₹28 each and sold at ₹35 each. Find total profit.
23. The length and breadth of a field are 45 m and 28 m. Find area and cost of fencing at ₹120 per metre.
24. A survey of favourite fruits among 40 students is given. Prepare a bar graph from suitable data of your choice.

Section E – HOTS

25. Explain why every even integer is divisible by 2 but not every number divisible by 2 is prime.

26. Compare the areas of two rectangles having the same perimeter but different dimensions.