



Mathematics Sample Question Paper
for
Entrance Examination for Class – VIII

Time: 01 Hour

Max. Marks: 100

Section – A (1 Mark each)

1. Evaluate: $20 \times (-5) \times (-8) = \dots\dots\dots$
2. The probability of getting a prime number on toss of a dice is $\dots\dots\dots$
3. $\frac{3}{6}$ of 9 kg is $\dots\dots\dots$ gm.
4. Value of 'y' is $\dots\dots\dots$ when $(-2)^{2y} = 64$.
5. Evaluate: $0.005 \times 0.48 = \dots\dots\dots$
6. 3 times $\frac{2}{7}$ of 28 is $\dots\dots\dots$
7. Coefficient of 'z' in $-\frac{15}{7}x^4yz$ is $\dots\dots\dots$
8. If $8(5 + x) = 40$; then 'x' is $\dots\dots\dots$
9. 25 is $\dots\dots\dots$ percent of 250.
10. An angle which is half of its complement is $\dots\dots\dots$

Section – B (5 Marks each)

11. Divide the difference of $\frac{3}{2}$ and $\frac{5}{7}$ by the difference of $\frac{1}{2}$ and $\frac{1}{3}$.

12. Solve for 'x' : $25^{x-1} + 100 = \frac{5^{2x}}{5}$

13. Total cost of 26 pens is Rs. 1107.60. What is the cost of 60 such pencils ?

14. A circular wire 28 cm long bent in the form of a square encloses how much area ?If same wire is re-bent to form a circle, find area enclosed by it now.

15. Simplify: $(5x^3 - 4x^2 - 8x) - (-2x^3 - 3x^2 + 7x) + (x^3 - 5x - 3)$

16. Solve for 'y': $\frac{2y-6}{3} + 4 = \frac{3-y}{2} + 3$

7. What must be subtracted from each term of ratio 8 : 12 so that the ratio becomes 1 : 2 ?

18. By selling a Table for Rs. 2080 a trader loses 20 % . Find cost price of the table.

19. How long should be the ladder which one would need in order to reach a window 12 m high given that the foot of ladder can be placed at a maximum distance of 5 m away from the wall?

20. Find mean for the following distribution:

Height(cm)	55	65	75	85	95	105	115
No. of students	6	8	10	10	8	6	4

Section – C (10 Marks each)

21. A day after tomorrow will be 26 July and today is Thursday. What was the day and the date, 3 days before yesterday ?

22. Two cross roads each of width 3m, run at right angles through the center of the rectangular park of length 50 m and breadth 30m and parallel to its sides. Find cost of leveling the roads at a rate of Rs. 25 per sq m.

23. Amish lent Rs 24,000 to his friend. He charged interest at a rate of 10 % per annum on Rs. 15,000 and 15 % on the remaining. How much interest does he earn in 3 years ?

24. Two poles 24m and 31m high stand upright on a playground such that distance between their tops is 25m. Find the distance between their bases on the ground.