



**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:

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

**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.