**Aarambh classes**

**Class VIII(CBSE )**

**Maths sample paper**

**Time : 2 hours M.Marks : 50**

**Multiple choice : (1x10 =10 )**

1. Decimal representation of is :
2. 0.5 (ii) 0.625 (iii) 0 .75 (iv)0.8
3. The root of the equation 2x+ =0 is
4. (ii) (iii) (iv)
5. If there are m packets of biscuits ,each costing Rs n .What is their total cost ?
6. m+n (ii)mn (iii) (iv)
7. The diagonals of a quadrilateral are equal.It is a

(i)Parallelogram (ii) rectangle (iii) rhombus (iv) trapezium

5. Diagonals of a rhombus are 12 cm and 16 cm .Each side of rhombus is :

(i) 10 cm (ii) 14 cm (iii) 20cm (iv)28 cm.

6. A spinner has number 1 to 5 on it.What is the probability that it will land on an odd number ?

(i) (ii) (iv)

7. A card is picked at random from a pack of 52. Find the probability that it will be a king .

(i) (ii) (iii) (iv)

8. If 80% of x is 240 ,find x .

(i)300 (ii) 400 (iii)350 (iv)260

9. A lamp was sold at Rs 900 after a 10% loss.The CP is :

(i) 800 (ii) 1000 (iii) 750 (iv) 850

10. Two successive discounts of 20% and 15% is equivalent to a single discount of

(i) 35% (ii) 32% (iii)5% (iv)40%

**(2x6 =12**)

11. The sum of two rational numbers is -8 .If one of them is ,find the other.

12. Find three rational numbers between -2 and -3 .

13. Solve : + = 1 +

14.Rakesh is half his father’s age now .Ten years ago,he was 20 years younger to his father .What are their present ages ?

15. A number consists of two digits whose sum is 9.If 27 is subtracted from the number ,the digits interchange their places . Find the number .

16 . Length of two sides of a parallelogram is 3:4 and its perimeter is 210.Find the sides of the parallelogram .

**(4x7=28)**

17. Find the number of sides of a regular polygon if the measure of an interior angle is 1560.

18. Construct a rhombus ABCD given that side AB =5.4 cm and A =700.

19. Favourite cuisine of 120 people in an office is given below .Display the data in a pie chart.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Cuisine | North Indian | Chinese | South indian | Continental | Mexican |
| No .of people | 24 | 36 | 48 | 6 | 6 |

20. Two dice are thrown together .Find the probability of getting

(i) same number on both dice (ii)the sum being a multiple of 3

(iii)a total of at least 9 (iv) the sum an even number

21. At what rate percent per annum will Rs 1600 amount to Rs 2000 in 2 years ?

22. Geetika bought a food processor for Rs 4800 .The price included a 10% VAT .Find the original price of food processor .

23. In what time will rs 64,000 amount to Rs 68,921 at 5% p.a interest being compounded half yearly?