Aarambh Classes

Class VIII

MATHS SAMPLE PAPER

TIME : 2 HOURS M.Marks : 80

Two marks questions :

1. Solve :
2. Find the number of sides of aregular polygon whose each exterior angle has a measure of 45.
3. What will be unit digit of square of 23687 ?
4. Is 243 a perfect cube ?
5. Find the product of –4p and 7 pq .
6. Multiply : (xyz-4) (xyz-2)
7. Find the area of a trapezium whose parallel sides are 7 cm and 9 cm and the distance between the sides is 3 cm .
8. Find the area of arhombus whose diagonals are of lengths 10 cm and 8.2 cm .
9. Factorise : z-7+7xy –xyz
10. Find the factors of

Three marks questions :

1. Sum of the digits of a two digit number is 9 .When we interchange the digits ,it is found that the resulting new number is greater than the original number by 27.Whta is the two digit number .
2. The ages of Harry and Hari are in the ratio 5:7 .Four years from now the ratio of their ages will be 3:4 .Find their present ages .
3. HELP is a parallelogram .Given that 0E =4 cm and HL is 5 more than PE ?Find OH .
4. In the following figure ,HOPE is a parallelogram .Find the angle measures x,y and z .State the properties you used to find them .
5. Draw a pie chart of the data given below :

The time spent by a child during a day -

|  |  |
| --- | --- |
| Sleep | 8 hours |
| School | 6 hours |
| Home work | 4 hours |
| Play | 4 hours |
| Others | 2 hours |
|  |  |

1. When adie is thrown ,list the outcomes of an event of getting
2. A prime number (ii) not aprime number (iii) a number greater than 5 (iv) a number not greater than 5 .

Also find the probabilities of the events .

1. Find a pythagorean triplet whose one member is 12.
2. Find the least number that must be added to 1300 so as to get a perfect square .
3. Find the cube root of 175616 by prime factorisation method .
4. Simplify : 3y(2y-7 ) -3(y-4 ) -63 for y=-2 .

4 marks questions :

1. (I) Simplify : (a+b) (2a-3b+c) -(2a-3b) c

(ii) Find : 95x103 using identity

1. (I) Find +
2. Find : 153-147
3. The lateral surface area of a hollow cylinder is 4224 cm.It is cut along its height and form a rectangular sheet of width 33 cm .Find the perimeter of the rectangular sheet ?
4. A godown is in the form of a cuboid of measures 60 mx 40 m x30 m .How many cuboidal boxes can be stored in it if the volume of one box is 0.8 m?
5. Factorise : Divide z (5z-80 ) by 5z(z+4)

5 marks questions :

1. Factorise :
2. A rectangular piece of paper 11 cm x 4 cm is folded without overlapping to make a cylinder of height 4 cm .Find the volume of the cylinder.