**Aarambh classes**

**Class VII(CBSE)**

**Maths sample paper**

**Time : 2 hours M.Marks :100**

**MCQ’S : (1X30=30)**

1. Two angles of a triangle are 800 and 600 .the third angle is
2. 400 (b)600 (c) 800 (d) 500
3. The product of and is :
4. (b) (c) (d)
5. Two sides of a right triangle are 2 cm each .The area of triangle in cm2 is
6. 4 (b)2 (c) 6 (d) 8
7. The sum of a ,-4a ,6a and -9a is
8. -6a (b)8a (c) 6a (d) -2a
9. When is written as a rational number with numerator 15 ,the denominator would be :
10. 15 (b)16 (c) -16 (d) -24
11. A parallelogram with base 5 cm has an area 60 cm2 .The corresponding altitude is
12. 7 cm (b) 8 cm (c) 12 cm (d) 20 cm
13. If a = 3 and b =-2 ,find the value of a2 -b2

(a)3 (b)4 (c) 5 (d) 6

(a) (b) (c) (d)

1. In an isosceles triangle the unequal angle is twice each of the equal angles .The measure of unequal angle is
2. 450 (b)900 (c) 600 (d) 1200
3. Which of the following is not greater than ?
4. (b) (c) (d)
5. The length and area of a rectangle are 15 cm and 150 cm2 .Its perimeter is

(a)10 cm (b) 25 cm (c) 30 cm (d) 50 cm

1. On subtracting -3m +2n from 5m -4n ,we get
2. 8m -6n (b)8m +6n (c) 2m -6n (d) 2m+2n
3. Out of the following ,the number which is not equal to is
4. (b) - (c) (d)
5. Find the angles of a triangle which are in the ratio 3:4:5 .
6. 450,600,750 (b)400,550,700 (c) 600,700,800 (d) 700 ,800,900
7. A man goes 5 m due west and then 12 m due north .How far is he from his starting point ?
8. 10m (b)17 m (c) 13 m (d) 11m
9. What should be added to to get 1 ?

(a) (b) (c) (d)

1. The coefficient of y in 15 xy 3 is :
2. 15xy2 (b) 15xy (c) 15y (d) xy2
3. 0.0000095 in scientific notation is :
4. 9.5 (b) 9.5 (c) 9.5 (d) 9.5
5. The hypotenuse of a right angle triangle having sides 12cm and 5 cm is
6. 10 cm (b) 13 cm (c) 20 cm (d) 17 cm
7. The area of a square is 50 cm2.The length of its diagonal is
8. 5 (b) 10 cm (c) 10 cm (d) 8 cm
9. Which is greater between ?
10. (b) (c)both are equal
11. On subtracting , we get
12. (b) (c) (d)
13. Circumference of a circle is 88 cm. Find its area
14. 600 cm2 (b) 616 cm2 (c) 144 cm2 (d) 880 cm2
15. Add 5x+ 4 and 6x -11 :
16. 10x-7 (b)11x -7 (c ) 6x +7 (d) 6x+11
17. =?
18. (b) (c) (d)
19. in standard form is
20. (b) (c) (d) none of these
21. =
22. -64 (b)64 (c) (d)
23. Subtract 5x -5y from 10x +7y :
24. 5y+12x (b)5x+12y (c)6x+6y (d) 7x+7y
25. Two diagonals of a rhombus are 6 cm and 8 cm ,then area of rhombus is :
26. 120 cm2 (b) 80 cm2 (c) 240 cm2 (d) none of these
27. If (-5) 12 x (-5)2x = (-5)20 ,then x is equal to
28. 4 (b) 5 (c) 6 (d) 8

**VSA : (6X2=12)**

1. . An exterior angles of a triangle measures 1100 and its interior opposite angles are in the ratio 2:3 .Find the angles of the triangle .

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1. In the given figure ,find the values of x and y :

x y 650

33. An angle is its own complement .Find the measure of the angle .

34. Simplify : x

35. Express in exponential form :

36. What should be added to to get ?

**SA (6)**

**37.** One of the exterior angles of a triangle is 1000 and the interior opposite angles are in the ratio 1:2 .Find the angles of the triangle .

**38.** Find three rational numbers between -2 and -1.

**39.** Construct ABC when BC= 5 cm , B =400 and .

40. The radius of a circular wheel is 7m .How many revolutions will it make to cover a distance of 8800 m ?

41. Evaluate : 3xy2 -4xy +4z ,if x = -1,y=2 and z =3

42. Find the value of n if

**LA (5X4=20 ):**

43. A ladder 26 m long reaches a window of a building 24 m above the ground .Determine the distance of the foot of the ladder from the building .

44. Subtract the sum of and from .

45. Draw a line l .Draw a perpendicular to l at any point on l.On this perpendicular choose appoint M, 3 cm away from l.Through M,draw a line m parallel to l.

46. A circular flower bed is surrounded by a path 4 m wide .The diameter of the flower bed is 66 m.What is the area of the path ?(=3.14)

47. From the sum of 3x2 -5x +4 and -7x2 -6x+8 subtract 4x2 -10x +9 .