Class-VII

Sample Paper-2 Mathematics

 S.A-2 M.M-90

All Questions are Compulsory

Section-A

1. Find S.I of Rs1000 at 5% P.A for 1 Year.

2. Find S.P of a scooter whore C.P is Rs 10500 and sold at a profit of Rs 2000.

3.The marks of some students are given as follows-10,12,15,10,13,14,16,10,12,11.Find mode of marks.

4. The Diameter of a Circle is 42cm.Find the Radius.

5. Fill up the black:-

 Loss%=Loss/\_\_\_\_ X 100

6. Solve for y- 7y+1+29.

7. Find the range of the numbers- 2,5,12,6,18,2,0,and 16.

8. Find the Product 2x2[3y-4x2y2]. {8X1=8}

Section-B

9. Find the value of 10% of 25% of Rs1000.

10. Find the loss on a watch Purchased at Rs330 and sold at a loss of 20%.

11. Find the H.C.F of the terms:-8x3y2, 8x3, 16y2.

12. Find the altitude of a Rhombus whose area is 320m2 and base is 16m.

13. In ∆ABC= ∆DEF then fill the following blanks-

(1) CA=\_ \_ \_ \_ \_ \_ (3) EF=\_ \_ \_ \_ \_ \_

(2) ang B=\_ \_ \_ \_ \_ \_ (4)ang A=\_ \_ \_ \_ \_ \_

14.Find two numbers whose sum is 52 and one number is 10 more than other number.

 Section-C

15.Express 5x6(12x2y)(3/20xy2) as a monomial and then evaluate at x=1 , y=2.

16.In a exam, 14% of total student had failed, if number of failed students is 91 then find the number of total students.

17.Write the number of vertices, edges and faces of given tetrahedron OABC.

18.In triangle ABC, AB=AC and triangle BCD, BD=CD then

 (i) is triangle ABD= triangle ACD?

 (ii) If yes, then give the congruence condition.

 (iii) State the three pairs of matching parts used for congruency.

19.Average salary of 19 workers in a factory is RS.850 per month, salary of I manager is RS.3500 per month. Find the average monthly salary of 20 employees.

20. Factorise: (a+b) (3x-y) + (a+b) (2y-x)

21. A table costs RS.200 more than a chair. The price of 2 tables and 3 chairs is Rs.1400. Find the cost of each

 OR

The numerator of a fraction is 6 less than its denominator. If 3 is added to numerator, the fraction becomes 2/3.Find the original fraction.

22.Two concentric circles have radii 14cm,7cm. Find the area of space between them.

23.

 (i) What does the bar graph represents?

 (ii) Which section have number of boy less then

 Girls ?

 (iii) What is the total no. of students in the class 7 ?

24. The diagonal of a quadrilateral is 40m long and perpendicular to it from opposite corners are 8m and 10m respectively . Find its area.

25.In adjoining fig. OA = OB and angle A = angle B

(i) Is angle AOC = angle BOD ? Why ?

(ii) Is ∆AOC = ∆BOD by ASA condition ?

(iii) State three facts used to answer (ii)

(iv)Is angle ACO =Angle BDO? Why ?

26. Solve and evaluate the result at given values of a and b

 ( 2a + 3b ) ( 4a2 +6ab +9b2 ) ; a = 2 , b = 1

27 A man travelled 2/5 of his journey by train , 1/3 by taxi , 1/6 by bus and remaining 10 km by foot. Find the length of his journey.

28. Rahul deposited Rs. 7000 at 7 percent per annum for 4.5 yrs and Rohan deposited Rs.7000 at 6 Percent P.a. for 5yrs . what amount will each get ? Who will get more interest.

29. A rectangular piece of garden is 46 m long and 40m broad. A pathway 3m wide is made outside the garden all around. Find the area of pathway.

30.( i) Sketch a cuboid of size 4 x 2 x 3 on a squared paper.

 (ii) What is the sum of numbers on opposite faces of a dice.

 31. In figure triangle ABC is isosceles with AB=AC D is a mid

 point of base BC .

 (i)Is triangle ADB = triangle ADC? If yes by which

 congruence condition?

(ii)State three pairs of matching parts that you use to arrive at your answer

32.A bicycle shop owner sold the following number of bicycle each day in a particular week .Present these observation in the form of bar graph.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| DAY | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| No. of cycles sold  | 35 | 30 | 44 | 25 | 10 | 25 |

33.When 1/3 is subtracted from a number and difference is multiplied by 4. The result is 28 find the number.

34. a circle having perimeter 440m is molded in the form of a quadrilateral having all sides equal and each angle of 900. Name this quadrilateral .How many vertices this quadrilateral have? Also find the area of quadrilateral.