**CBSE Class 7 Mathematics Model Question Paper – Term 1**

**HALF YEARLY EXAMINATION**

**CLASS – VII** **MATHEMATICS** **MARK- 50**

**DATE:** **TIME: 2 HR**

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**I choose the correct answer from the options given below: ($5 \times 1 = 5$ marks)**

1. (-1) x 225 = -------

(225, -225, 1)

2. If 10p = 100, then value of p is ----------

(10, 100, 50)

3. Sum of three angles of a triangle is ----------

(80°, $180°, 100°$)

4. $\frac{2}{3}$ of 18 is ----------

(6, 9, 12)

5. When the sum of the measures of two angles is 180°, the angles are called ----------

(Complementary angles, Supplementary angles, vertically opposite angles)

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**III. Fill in the blanks: (5 x 1 = 5 marks)**

6. ---------- is an additive identity for integers.

7. 0.5 ×10 = ----------

8. The observation that occurs most often is called ----------

9. The angle which is equal to its complement is ----------

10. In an equilateral triangle, each angle has measure ----------

**III Answer the following: (11$\times 2 = 22$ marks)**

11. Find the product of:

a) (-15) $\times 0 \times (-18)$

b) (-1) $\times (-2) \times (-3) \times 4$

12. Find

a) $\frac{3}{8} \times \frac{6}{4}$

b) $\frac{4}{9} \div \frac{2}{3}$

13. Write equations for the following statements:

a) 2 subtracted from y is 8.

b) Seven times m plus 7 gets you 77.

14. Identify which of the following pairs of angles are complementary and which are supplementary?

i) $65°, 115°$

ii) $63°, 27°$

iii) $112°, 68°$

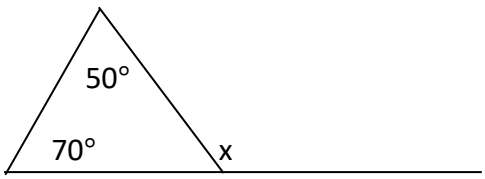
iv) $45°, 45°$

15. PQR is a triangle right angled at P. If PQ = 10cm and PR = 24 cm, find QR using Pythagoras Property.

16. The sum of three times of a number and 11 is 32.Find the number?

17. Solve 2(x + 4) = 12

18. Find the value of the unknown exterior angle x




19. The length of a rectangle is 8.2 cm and its breadth is 3.5 cm. What is the area of the rectangle?

20. A batsman scored the following number of runs in six innings:

89, 76, 90, 92, 86, 93

Calculate the mean runs scored by him in an inning.

21. There are 6 marbles in a box with numbers from 1 to 6 marked on each of them.

i) What is the probability of drawing a marble with number 2?

ii) What is the probability of drawing a marble with number 5

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**IV Answer the following: (6$\times$ 3 $=$ 18 marks)**

22. Evaluate each of the following:

a) 50 $\div$ $(-5)$

b) (-36) $\div$ $(-9)$

c) (-30) $\div$ 10

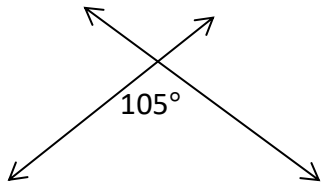
23. Draw two parallel lines and make a transversal. Identify:

a) the pairs of corresponding angles

b) the vertically opposite angles

c) the pairs of alternate interior angles

24. One angle measurement is 105°.Find the measurement of the remaining three angles in the following figure.




25. A car covers a distance of 72.9km in 2.7 hours. What is the average distance covered by it in 1 hour?

26. The marks (out of 100) obtained by a group of students in a Mathematics test are 98, 78, 96, 89, 88, 94, 90, 84, 86, 91.Find the:

i) Highest and the lowest marks obtained by the students

ii) Range of the marks obtained.

iii) Mean marks obtained by the group

27. Solve the following:

a) 3p = 27

b) 2q – 6 = 0

c) 3x = 0

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