INDIAN SCHOOL SOHAR
SUMMATIVE ASSESSMEMT 1

MATHEMATICS

STD VII   **Marks :60**
29-09-13   **Time   : 2 HOURS**
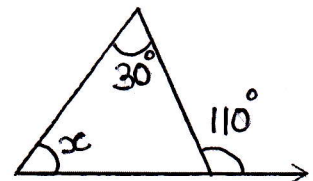
Note:

Do the calculations in the working column.

Give necessary formulae and steps wherever required.

SECTION A (Question numbers 1 to 10 carry 1mark each)
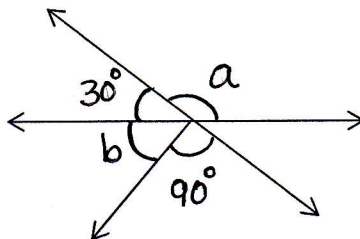
1. If −1 is multiplied with itself 50 times, the product is _____

A. −1   B. 1   C. −50   D. 50

2. If each one of the equal angles of an isosceles triangle is 55°, then the third angle is _____

A. 80°   B. 70°   C. 60°   D. 180°

3. The cost of 100 notebooks is Rs. 2250. What is the cost of 1 notebook?

A.Rs 2.25   B.Rs 22.50   C. Rs.225   D.Rs. 22.25

4. The solution of $(4 - m) = 24$ is _____

A. 20   B. −20   C. 6   D. 28

5. Find the mode of the following data: 42, 45,46, 46, 40, 45, 42, 45

A. 2   B. 6   C. 5   D. 45

6. Form the equation: The sum of one-third of y and 10 is 4

A. $\dfrac{y+10}{3} = 4$ B. $y + 10 = 4$ C. $\dfrac{y}{3} + 10 = 4$ D. $y + 10 = \dfrac{4}{3}$

7. Two angles of a triangle are complementary. The third angle is _____

A. 60°   B. 90°   C. 45°   D. 35°

8. Find $\dfrac{5}{6} \div 6 = $ _____

A. 5   B. $\dfrac{6}{5}$ C. $\dfrac{5}{36}$ D. $\dfrac{1}{5}$

9. The value of x is _____

A. 70°   B. 110°   C. 40°   D. 80°

10. The product of −2 , −3 and −4 is _____

A. 24   B. −24   C. −9   D. −1

SECTION B (Question numbers 11 to 18 carry 2marks each)

11. Draw an obtuse angled triangle PQR, obtuse angled at Q. Draw an altitude from point P to side QR

12. Find the values of **a** and **b**.

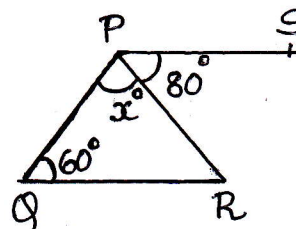13. Find the product using suitable property: $85 \times (-35) + (-85) \times 65$

14. Evaluate: $[(-48 \div 12] \div 4$

15. A boat $4\frac{2}{3}$ metres in height is sailing in water.One-third of its height is under water. Find the height of the boat under water.

16. Find the median of the following data : 17, 43, 29, 10, 86, 111, 264

17. Construct two equations starting with $x = -3$

18. PS is parallel to QR.Find the value of x.

SECTION C (Question numbers 19 to 24 carry 3marks each)

19. Water descends from the dam to the ground level at the rate of 8m/min If the descend of water starts from 800m above the ground level, how long will it take to reach −480m ?

20. A square has a side of $28\frac{2}{3}$ cm and a rectangle has a length of $10\frac{1}{3}$ cm and breadth $8\frac{2}{3}$ cm.

   Which figure has more perimeter and by how much?

21. There are 10 marbles in a box with numbers from 1 to 10 marked on each of them.
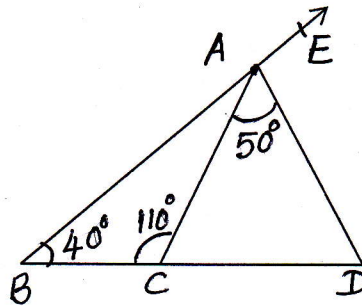   What is the probability of drawing a marble with :

   i) a prime number   ii) an even number   iii) a number divisible by 5

22. The difference in the measures of two supplementary angles is 30° Find the measures of the angles.

23. Form equations and solve :

   i) Ten subtracted from twice a number is 90

   ii) One third of a number added to 3 is 33

24. Find : i) $\angle ACD$
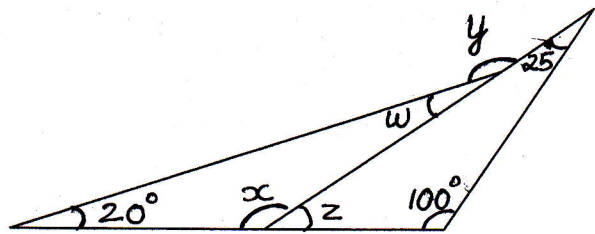   ii) $\angle ADC$
        iii) $\angle DAE$

25. i) Solve : $\dfrac{2a}{3} - 10 = 6$

    ii) Ranjit's age is five years more than three times Laxmi's age. Find Laxmi's age if Ranjit's age is 44

26. Find the values of **x, y, z** and **w**

27. i) What should be added to 4.187 to get 9 ?

    ii) Mita had $8\dfrac{3}{4}$ metres long ribbon. She cut it into 7 equal parts. What is the length of each of each piece of ribbon?

28. The maximum and minimum temperature (in °C) of the four major cities of India on a particular day are given below.

City	Delhi	Mumbai	Kolkata	Chennai
Max.Temp	34	30	31	32
Min. Temp	28	24	27	28

Construct a double bar graph to represent the given data.

****** THE END ******