Time : 40 minutes   **Class VII (Mathematics) (Sep-2021)**   **M.M = 20**
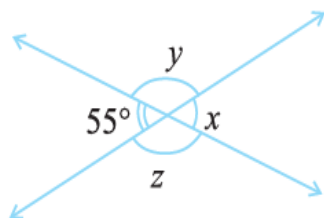
> Question 1 to 10 carry 1 mark each.
> Question 11 to 12 carry 2 mark each.
> Question 13 to 14 carry 3 mark each.

<center>Part – A</center>

1. Evaluate: $\frac{4}{5}+\frac{3}{11}$
   (i) $\frac{7}{55}$ (ii) $\frac{49}{55}$ (iii) $\frac{59}{55}$ (iv) $\frac{7}{16}$

2. Range of data: 14, 6, 12, 17, 21, 10, 4, 3
   (i) 21   (ii) 18   (iii) 17   (iv) 11

3. Find the value of $-8-(-4)$
   (i) -4 (ii) 4   (iii) -12 (iv) 12

4. Which of the following is pair of complementary angles?
   (i) $63°,27°$ (ii) $65°115°$ (iii) $63°,37°$ (iv) $130°,50°$

5. A solid that has only one vertex.
   (i) Pyramid   (ii) Cube   (iii) Cone   (iv)Cylinder

6. The letter H has rotational symmetry of order___
   (i) 1   (ii) 2   (iii) 3   (iv) 4

7. The measures of two angles of a triangle are 65° and 35°. The measure of third angle is
   (i) 100°   (ii) 80°   (iii) 180°   (iv) 40°

8. Find $\frac{3}{4}$ of 16 is
   (i) 12   (ii) $\frac{3}{4}$ (iii) 6   (iv) 8

9. The longest side of a right angled triangle is known as ____
   (i) Height   (ii) Median   (iii) Base   (iv) Hypotenuse

10. Find the ratio of Rs 5 to 50 paisa.
    (i) 1:10   (ii) 10:1   (iii) 2:1   (iii) none of these

11. In given figure, find the value of $x, y \ and \ z$

12. A cupboard bought for Rs 2500 and sold at Rs 3000. Find the profit or loss%.

13. A cricketer scores the following runs in 8 innings:
    58, 76, 40, 35, 56, 35, 0, 100
    (a) Find the mean score.
    (b) Find the mode of the data.

14. Michael finished coloring a picture in $\frac{7}{12}$ hour. Vaibhav finished colouring the same picture in $\frac{3}{4}$ hour. Who worked longer? By what fraction was it longer?
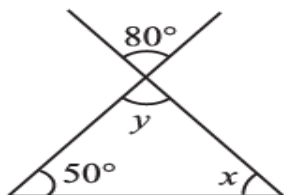
Question 1 to 10 carry 1 mark each.
Question 11 to 12 carry 2 mark each.
Question 13 to 14 carry 3 mark each.

Part – B

1. Solve: $13 \div [(-2) + 1]$
    (i) 13   (ii) -13 (iii) 12   (iv) -12
2. Number of line of symmetry a square have _____
    (i) 1   (ii) 2   (iii) 3   (iv) 4
3. Each face of cube is
    (i) Rectangle   (ii) Rhombus   (iii) Square   (iv) Triangle
4. The angle which makes a linear pair with an angle of 61° is of
    (i) 29°   (ii) 61°   (iii) 122°   (iv) 119°
5. 6 bowls cost Rs 90. Find the cost of 10 bowls.
    (i) Rs 54(ii) Rs 150   (iii) Rs 15   (iv) none of these
6. How much less is 28 km than 42.6 km?
    (i) 70.6 km   (ii) 15.6 km   (iii) 14.6 km   (iv) 28.02 km
7. Mean of first 5 whole number is
    (i) 10   (ii) 3   (iii) 2.5   (iv) 2
8. A die is thrown once. What is the probability of getting a number 3?
    (i) $\frac{1}{2}$ (ii) $\frac{1}{6}$ (iii) $\frac{1}{3}$ (iv) 3
9. Convert $\frac{8}{25}$ into percentage.
    (i) 32%   (ii) 40%   (iii) 36%   (iv) 25%
10. The two interior opposite angles of an exterior angle of a triangle are 60° and 40°. Find the measure of exterior angle.
    (i) 20°   (ii) 60°   (iii) 120°   (iv) 180°
11. A car runs 16 km using 1 litre of petrol. How much distance will it cover using $2\frac{3}{4}$ litre of petrol.
12. Find the value of x and y

13. (i) Find the amount to be paid at the end of 3 years on a sum of Rs 1200 at 12 % per annum.
    (ii) Find 20% of Rs 2500

Case Study

14. In a class test containing 10 questions, 5 marks are awarded for every correct answer, -2 marks are awarded for every incorrect answer and 0 marks for questions not attempted. If Ram gets
    (a) Four correct answers, how many marks did he score for the correct answers.
    (i) 20   (ii) -20   (iii) 15   (iv) -15
    (b) If he gets 5 incorrect answers, how many marks did he score for incorrect answers.
    (i) 25   (ii) -25   (iii) 10   (iv) -10
    (c) What is his total score?
    (i) 5   (ii) 10   (iii) -5   (iv) -10