FORMATIVE ASSESSMENT – SECOND MID TERM

<div style="text-align:center">MATHEMATICS</div>

Max. Marks: 50

Std - VII

Time: 2 Hrs

Name of the School:	Name of the Student:
Place:	Roll No.:

I. Choose the best answer: **5 x 1 = 5**

1. 56% is equal to _____.

   a) $\dfrac{25}{14}$ b) $\dfrac{14}{25}$ c) $\dfrac{56}{1000}$ d) $\dfrac{560}{100}$

2. $\dfrac{1}{10}$ as a percentage is _____.

   a) 1%   b) 5%   c) 10%   d) 0.1%

3. The CP is ₹450 and the loss % is 10%. The SP is _____.

   a) ₹400   b) ₹350   c) ₹405   d) ₹ 415

4. The sum of 3 numbers is 12 and the sum of another 2 numbers is 13. The mean of all the five numbers is _____.

   a) 6   b) 5   c) 4   d) 10

5. Find the perimeter of a rectangular playground of length = 70 m and breadth = 50 m

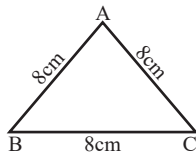   a) P = 200 m   b) P = 220 m   c) P = 240 m   d) P = 260 m

II. Match the following: **5 x 1 = 5**

1. Area of parallelogram   – $\dfrac{1}{2}h\,(a+b)$

2. Area of trapezium   – $b \times h$

3. $\dfrac{\text{(Sum of observations)}}{\text{(No. of observations)}}$ –   8.18

4. 818%   –   6

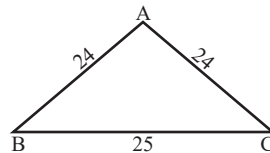5. $\dfrac{(630 \times 100 \times 2)}{(3000 \times 7)}$ –   Mean

III. Do as Directed: **10 x 2 = 20**

1. ₹60000 is invested at the rate of 5% per annum. Calculate the simple Interest and the amount receivable at the end of 3 years.

2. Convert the following into fractions.

   a) 2%   b) 117%

3. Find the profit % if the cost price of an air cooler is ₹7000 and the selling. Price is ₹8500.

4. If ₹15000 yields an interest of ₹5775 at the rate of 5.5% per annum. What is the time period of deposit?

5. The masses of a dozen apples are as follows. (in grams)

   75, 68, 70, 82, 78, 69, 73, 75, 74, 68, 78, 80, Find the mean mass of the apples.

6. Find the mode.

   25, 20, 15, 22, 28, 25, 7, 18, 25, 20, 17, 18

7. Find the perimeter of the given equilateral. Triangle ABC of side 8cm.

8. Find the cost of fencing a square Garden 40m side, if the charges are ₹85 per sq. meter
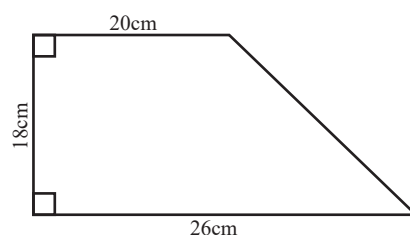
9. Find the area of the given triangle.

10. Find the area of a Rhombus whose diagonals measures 24 cm and 16 cm respectively.

IV. Answer the following: 4 x 5 = 20

1. Find the area of the trapezium.

2. If the perimeter of a Rhombus is 60 m. Find its side. If the diagonals are of measure 15 cm and 20 cm. Find its area.

3. The heights of some saplings in a nursery are given below.

   26cm, 48cm, 15cm, 37cm, 40cm, 16cm, 22cm, 36cm, and 33cm. Find the median height.

4. Find the interest on ₹ 25000 invested at 11% per annum for 4 years. What would be the amount payable at the end of the period.