# FORMATIVE ASSESSMENT – FIRST MID TERM

**MATHEMATICS**          **Max. Marks: 50**

**Std - VIII**          **Time: 2 Hrs**

| Name of the School: | Name of the Student: |
|---|---|
| | |
| **Place:** | **Roll No.:** |
| | |

**I.    Choose the correct answer:**          **10 × 1 = 10**

1. The value of $4 + \dfrac{3}{5}$ is _____.

   a) $\dfrac{5}{23}$          b) $\dfrac{23}{5}$          c) $\dfrac{24}{5}$          d) $\dfrac{5}{24}$

2. A rational number is always in the form of _____

   a) $\dfrac{2}{3}$          b) $\sqrt{2}$          c) $2 + 3$          d) $0.2$

3. the value of $\dfrac{3}{8}$ is _____

   a) 375          b) 0.375          c) 37.5          d) 3.75

4. The decimal representation of $\dfrac{-2}{5}$ is _____

   a) $-0.4$          b) $+0.4$          c) $-4.0$          d) $+4.0$

5. The value of 0.3 to a rational number is _____.

   a) $\dfrac{3}{10}$          b) $\dfrac{30}{10}$          c) $\dfrac{3}{100}$          d) $\dfrac{3}{1000}$

6. Find the larger number $\dfrac{3}{7}$ and $\dfrac{5}{9}$ _____

   a) $\dfrac{5}{9}$          b) $\dfrac{3}{7}$          c) $\dfrac{3}{9}$          d) $\dfrac{5}{7}$

7. Express the following rational number as decimals $\dfrac{-83}{100}$.

   a) $-83$          b) $-0.83$          c) $-0.083$          d) $-8.3$

8. The value of $\dfrac{5}{7} + \dfrac{4}{7}$ is _____.

   a) $\dfrac{9}{7}$          b) $\dfrac{4}{7}$          c) $\dfrac{20}{7}$          d) $\dfrac{1}{7}$

9. The value of $-P + P$ is _____.

   a) 1          b) 0          c) 2P          d) $-P$

10. From $\dfrac{2}{7}$ subtract $\dfrac{-5}{9}$ and the solution is _____.

    a) 46 sq. units          b) 42 sq. units          c) 48 sq. units          d) 192 sq. units

**II.    Do as directed:**          **10 × 2 = 20**

11. Find the multiplicative inverse of the following numbers.

    a) $\dfrac{3}{2}$          b) $\dfrac{11}{-7}$

12. Solve: $\dfrac{-4}{9} \times \dfrac{9}{-4}$

13. Find the value of $\frac{1}{5} + (\frac{2}{3} + \frac{5}{7})$.

14. Solve: $14\frac{2}{3} \div \frac{11}{15}$

15. Solve: $\frac{-3}{4} \times (\frac{39}{18} - \frac{13}{-36})$

16. Write the reciprocal of the following:

   a) $\frac{5}{7}$  b) $\frac{-2}{9}$

17. Find the product $\frac{-2}{7} \times \frac{-3}{8} \times \frac{-5}{6}$

18. Solve $\frac{1}{5} + (\frac{-3}{8} - 3\frac{3}{4})$

19. Simplify $1\frac{2}{3} + (\frac{-3}{4}) + \frac{3}{5}$

20. fill the box with correct symbol. (<, >, =)

   $3\frac{4}{5}$ ☐ $3\frac{6}{7}$

## III. Answer the following: (Any 2)   $2 \times 5 = 10$

21. Simplify

   $2\frac{2}{3} - (\frac{-7}{9} - \frac{3}{7}) + (\frac{-6}{7} + \frac{5}{7}) - 3\frac{2}{3} - (\frac{+3}{4}\frac{-5}{7})$

22. Show that,

   $$\frac{\frac{7}{9} - 5}{\frac{4}{3}} \div \frac{3}{2} + \frac{4}{9} - \frac{1}{3} = -2$$

23. Find $x$ if $5\frac{x}{5} \times 3\frac{3}{4} = 21$.

## IV. Geometry:   $1 \times 10 = 10$

24. Construct the quadrilateral, given that
   AB = 6cm, BC = 4cm, CD = 3.5cm,
   AD = 4.7cm and AC = 7cm
   and write the steps for construction.