

SUMMER ASSIGNMENT (2025-2026)

SUB: MATHEMATICS

CLASS: VIII

1. Find using distributive property:

$$(i) \left\{ \frac{7}{5} \times \left(\frac{-3}{12} \right) \right\} + \left\{ \frac{7}{5} \times \left(\frac{5}{12} \right) \right\} \quad (ii) \left\{ \frac{9}{16} \times \left(\frac{4}{12} \right) \right\} + \left\{ \frac{9}{16} \times \left(\frac{-3}{9} \right) \right\}$$

2. Evaluate: (i) $\frac{4}{7} + 0 + \frac{-8}{9} + \frac{-13}{7} + \frac{17}{9}$ (ii) $\frac{-4}{5} \times \frac{8}{9} \times \frac{13}{27} \times \frac{-17}{15}$

3. Evaluate: $\frac{-2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$.

4. Write Additive identity, Multiplicative identity, Additive inverse and multiplicative inverse of $\frac{-3}{5}$.

5. Solve the following linear equations and check your result.

$$(i) 5x + \frac{7}{2} = \frac{3}{2}x - 14 \quad (ii) 4(x - 4) = 3(3x + 2)$$

6. Solve the following linear equations:

$$(i) n + 8 - \frac{5n}{4} = \frac{15}{6} - \frac{4n}{2} \quad (ii) 1.25(2u - 4) = 1.05(10u - 8).$$

7. The angles of a quadrilateral are $(3x + 2)^\circ$, $(x - 3)^\circ$, $(2x + 1)^\circ$, and $2(2x + 5)^\circ$, respectively. Find the measure of each angle.

8. How many diagonals are present in regular polygons having the following number of sides? (i) 7 sides (ii) 10 sides (iii) 12 sides

9. What is the sum of the interior angles of regular polygons having the following number of sides? (i) 5 sides (ii) 8 sides (iii) 9 sides

10. The measures of an interior angles of a regular polygon is 140° . Find its number of sides and the measures of each exterior angle.

Write following Maths Lab Activities in Maths Practical file.

1. To Verify that the sum of four angles of a quadrilateral is 360° .
2. To verify that sum of exterior angles of a triangle and quadrilateral taken in order is 360° or four right angles.
3. To make a rectangle by paper folding.
4. To make a rhombus by paper folding and cutting.
5. To make a square by paper folding.
6. To make a kite by paper folding and cutting.
7. To collect data and represent this through a bar graph.

Solve each of the following linear equations and colour the petals with the same value of x , as mentioned.

a. $2(x - 1) + 3 = 5$



b. $3(x + 1) - 5 = 2x + 1$



c. $4(x + 2) - 3x = 9$



d. $7x - 3(x + 2) = 10$



e. $\frac{1}{5}x - \frac{2}{5} = \frac{3}{5}$

