Subject: - Mathematics
Topic: - Rational Numbers

PRACTICE PAPER

CBSE-8th

1. Verify associativity of addition of rational number: $(x + y) + z = x + (y + z)$, when : - $x = \frac{1}{2}, y = \frac{2}{3}, z = \frac{-1}{5}$

2. Re – arrange suitably and find the sum in each of the following: -

a) $\frac{1}{8} + \frac{5}{12} + \frac{2}{7} + \frac{7}{12} + \frac{9}{7} + \left(-\frac{5}{16}\right)$ **Ans.** $\frac{267}{112}$

3. What no. should be added to $\frac{-5}{11}$ so as to get $\frac{26}{33}$? **Ans.** $\frac{41}{33}$

4. What should be subtracted from $\left(\frac{3}{4} - \frac{2}{3}\right)$ to get $\frac{-1}{6}$? **Ans.** $\frac{1}{4}$

5. Simplify: - $\left(\frac{3}{11} \times \frac{5}{6}\right) - \left(\frac{9}{12} \times \frac{4}{3}\right) + \left(\frac{5}{13} \times \frac{6}{15}\right)$ **Ans.** $\frac{-177}{286}$

6. Verify the property: -

$x \times (y + z) = x \times y + x \times z$ by taking $x = \frac{-12}{5}$, $y = \frac{-15}{4}$, $z = \frac{-5}{6}$

7. Divide the sum of $\left(\frac{-13}{5}\right)$ and $\frac{12}{7}$ by the product of $\frac{-31}{7}$ and $\frac{-1}{2}$. **Ans.** $\frac{-2}{5}$

8. Find four rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$.

9. Verify the given statement true or false: -

a) $\left(\frac{-3}{5} \div \frac{-12}{35}\right) \div \frac{1}{14} = \frac{-3}{14} \div \left(\frac{-12}{35} \div \frac{1}{4}\right)$

10. Evaluate: - $\frac{-12}{5} + \frac{-7}{20} + \frac{3}{14} + \frac{1}{7} + \frac{-1}{10}$ **Ans.** $\frac{-349}{140}$