

PARAGON CONVENT SCHOOL

SECTOR – 24B , CHANDIGARH

ANSWER KEY

CLASS – 7

SUBJECT – MATHS

EXERCISE – 4C

Q-1. Find the sum –

$$(a) \frac{1}{6} + \frac{1}{6}$$
$$\frac{1+1}{6} = \frac{2}{6} = 1$$

$$(b) \frac{3}{24} + \frac{-5}{24}$$
$$\frac{3+(-5)}{24} = \frac{-2}{24} = \frac{-1}{12}$$

$$c. \frac{-7}{18} + \frac{-5}{18}$$

$$\frac{(-7)+(-5)}{18} = \frac{-12}{18} = -2$$

Q2. Add the following –

$$(a) \frac{7}{8} + \frac{1}{2}$$
$$\frac{7+4}{8} = \frac{11}{8} = 1\frac{3}{8}$$

$$(b) \frac{2}{5} + \frac{-3}{10}$$
$$\frac{4+(-3)}{10} = \frac{1}{10}$$

$$(c) \frac{-7}{9} + \frac{-4}{27}$$
$$\frac{(-21)+(-4)}{27} = \frac{-25}{27}$$

Q3. Find the sum –

$$(a) \quad \frac{3}{5} + \frac{3}{8}$$

$$\frac{24 + 15}{40} = \frac{39}{40}$$

$$(b) \quad \left(\frac{1}{9}\right) + \left(\frac{-1}{8}\right)$$

$$\frac{8 + (-9)}{72} = \frac{-1}{72}$$

Q4. Subtract :

$$(a) \quad \frac{3}{4} \text{ from } \frac{7}{8} = \frac{7}{8} - \frac{3}{4}$$

$$\frac{7 - 6}{8} = \frac{1}{8}$$

$$(b) \quad \frac{-3}{8} \text{ from } \frac{4}{5}$$

$$\frac{4}{5} - \frac{(-3)}{8}$$

$$\frac{32 + 15}{40} = \frac{47}{40} = 1 \frac{7}{40}$$

$$(c) \quad \frac{-4}{7} \text{ from } \frac{-6}{7}$$

$$\frac{-6}{7} - \frac{(-4)}{7}$$

$$\frac{-6 + 4}{7} = \frac{-2}{7}$$

Q-5. Simplify ;

$$(a) \quad \left(\frac{-7}{6}\right) + \frac{3}{8} + \frac{1}{4}$$

$$\begin{array}{l|l} 2 & 6, 8, 4 \\ \hline 2 & 3, 4, 2 \\ \hline & 3, 2, 1 \end{array}$$

$$\frac{-28 + 9 + 6}{24} = \frac{-13}{24}$$

$$\text{LCM} = 2 \times 2 \times 2 \times 3 = 24$$

$$(b) \quad \frac{1}{3} + \left(\frac{-3}{4}\right) + \frac{7}{8}$$

$$= \frac{8 - 18 + 21}{24} = \frac{11}{24}$$

$$(c) 3\frac{1}{7} + \left(\frac{-5}{14}\right) + \left(\frac{-7}{12}\right) + 2\frac{3}{4}$$

$$\frac{22}{7} - \frac{5}{14} - \frac{7}{12} + \frac{11}{4}$$

$$\frac{264 - 30 - 49 + 231}{84} = \frac{495 - 79}{84} = \frac{416}{84} = \frac{104}{21} = 4\frac{20}{21}$$