



Self Practice 7C

Add the following and give your answer in simplest form.

1. $5\frac{1}{2} + 4\frac{1}{2}$

2. $1\frac{3}{4} + 6\frac{3}{4}$

3. $9\frac{3}{8} + 10\frac{5}{8}$

4. $105\frac{7}{15} + 220\frac{2}{15}$

5. $6\frac{1}{17} + 7\frac{3}{17} + 10\frac{5}{17}$

6. $8 + 12\frac{3}{18} + 12\frac{17}{18}$

7. $3\frac{1}{3} + 2\frac{5}{6}$

8. $1\frac{2}{7} + 8\frac{1}{14}$

9. $1\frac{7}{8} + 4\frac{5}{6}$

10. $2\frac{7}{10} + 2\frac{7}{100}$

11. $4\frac{4}{5} + 5\frac{3}{8}$

12. $5\frac{1}{6} + 2\frac{4}{9}$

Solution 1:-

1) $5\frac{1}{2} + 4\frac{1}{2}$

$= \frac{11}{2} + \frac{9}{2}$

$= \frac{11 + 9}{2}$

$= \frac{20}{2} = \frac{10}{1} = 10$

3) $9\frac{3}{8} + 10\frac{5}{8}$

$= \frac{75}{8} + \frac{85}{8}$

$= \frac{75 + 85}{8}$

$= \frac{160}{8} = \frac{20}{1} = 20$

4) $105\frac{7}{15} + 220\frac{2}{15}$

$= \frac{1582}{15} + \frac{3302}{15}$

$= \frac{4884}{15} = \frac{1628}{5}$

$= 325\frac{3}{5}$

$$10) \quad 2 \frac{7}{10} + 2 \frac{7}{100}$$

$$= \frac{27}{10} + \frac{207}{100}$$

$$= \frac{27 \times 10 + 207 \times 1}{100}$$

$$= \frac{270 + 207}{100}$$

$$= \frac{477}{100} = 4 \frac{77}{100}$$

$$\begin{array}{r|l} 2 & 10, 100 \\ \hline 5 & 5, 50 \\ \hline 5 & 1, 10 \\ \hline 2 & 1, 2 \\ \hline & 1, 1 \end{array}$$

$$\begin{aligned} \text{LCM} &= 2 \times 5 \times 5 \times 2 \\ &= 100 \end{aligned}$$

$$12) \quad 5 \frac{1}{6} + 2 \frac{4}{9}$$

$$= \frac{31}{6} + \frac{22}{9}$$

$$= \frac{31 \times 3 + 22 \times 2}{18}$$

$$= \frac{93 + 44}{18}$$

$$= \frac{137}{18} = 7 \frac{11}{18}$$

$$\begin{array}{r|l} 2 & 6, 9 \\ \hline 3 & 3, 9 \\ \hline 3 & 1, 3 \\ \hline & 1, 1 \end{array}$$

$$\begin{aligned} \text{LCM} &= 2 \times 3 \times 3 \\ &= 18 \end{aligned}$$

Q2, Q7, Q8, Q9 and Q11 are Homework.

Q5 and Q6 are omitted