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) $2\dfrac{7}{10} + 2\dfrac{7}{100}$

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

$= \dfrac{27\times10 + 207\times1}{100}$

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

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

2	10, 100
5	5, 50
5	1, 10
2	1, 2
	1, 1

$LCM = 2\times5\times5\times2$
$= 100$

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

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

$= \dfrac{31\times3 + 22\times2}{18}$

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

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

2	6, 9
3	3, 9
3	1, 3
	1, 1

$LCM = 2\times3\times3$
$= 18$