Part 1 – Adding and Subtracting Fractions

To add or subtract fractions you must convert each fraction to a Common Denominator.

Example 1: $\frac{2}{5}+\frac{1}{3}$

$\frac{2}{5} \rightarrow \frac{6}{15}$

$+\frac{1}{3} \rightarrow +\frac{5}{15}$

$\boxed{\frac{11}{15}}$

Example 2: $\frac{7}{8}+\frac{1}{2}$

$\frac{7}{8} \rightarrow \frac{7}{8}$

$+\frac{1}{2} \times 4 \rightarrow +\frac{4}{8}$

$\boxed{\frac{11}{8}=1\frac{3}{8}}$

Example 3: $4\frac{3}{4}-1\frac{5}{6}$

$4\frac{3}{4} \rightarrow 4\frac{9}{12}+\frac{12}{12}=3\frac{21}{12}$

$-1\frac{5}{6} \rightarrow -1\frac{10}{12}$

$\boxed{2\frac{11}{12}}$

Rewrite each problem vertically, show all your steps, and circle your answer.

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

$\frac{4}{6}+\frac{5}{6}$ $\boxed{1\frac{1}{2}}$

$\frac{9}{6}$

2. $\frac{5}{8}+\frac{1}{6}$

$\frac{15}{24}+\frac{4}{24}$

$\boxed{19/24}$

3. $\frac{7}{12}-\frac{1}{4}$

$\frac{7}{12}-\frac{3}{12}$ $\boxed{1/3}$

$\frac{4}{12}$

$\boxed{\frac{1}{3}}$

4. $5\frac{4}{5}+3\frac{2}{3}$

$5\frac{12}{15}+3\frac{10}{15}$

$8\frac{22}{15}$

$\boxed{9\frac{7}{15}}$

5. $10\frac{1}{6}-5\frac{3}{4}$

$10\frac{2}{12}{}^{14}-5\frac{9}{12}$

$\boxed{4\frac{5}{12}}$

6. $\frac{2}{3}+\frac{4}{5}$

$\frac{10}{15}+\frac{12}{15}$

$\frac{22}{15}$ $\boxed{1\frac{7}{15}}$

7. $\frac{6}{7} - \frac{1}{3}$

$\frac{18}{21} - \frac{7}{21}$

$\frac{11}{21}$

8. $\frac{7}{12} + \frac{5}{9}$

$\frac{21}{36} + \frac{20}{36}$

$\frac{41}{36}$

$1\frac{5}{36}$

9. $2\frac{3}{5} + 1\frac{3}{4}$

$3\frac{12}{20} + \frac{15}{20}$

$3\frac{27}{20}$

$4\frac{7}{20}$

10. $5\frac{1}{3} - 2\frac{5}{12}$

$4\ 5\frac{16}{12} - 2\frac{5}{12}$

$2\frac{11}{12}$

11. $6\frac{9}{16} - 4\frac{3}{8}$

$6\frac{9}{16} - 4\frac{6}{16}$

$2\frac{3}{16}$

12. $10\frac{5}{6} + 5\frac{3}{4}$

$15\frac{10}{12} + \frac{9}{12}$

$15\frac{19}{12}$

$16\frac{7}{12}$

Part 2 – Adding and Subtracting Decimal Fractions

To add or subtract decimal fractions, you must first line up the place values

You may need to add zeros as place holders.

Example 1: 2.45 + 1.2

$$\begin{array}{r} 2.45 \\ +\ 1.20 \\ \hline 3.65 \end{array}$$

Example 2: 450 + .012

$$\begin{array}{r} 450.000 \\ +\ \ .012 \\ \hline 450.012 \end{array}$$

Example 3: 84.27 – .003

$$\begin{array}{r} 84.270 \\ -\ \ .003 \\ \hline 84.267 \end{array}$$

Example 4: 54 – 3.25

$$\begin{array}{r} 54.00 \\ -\ 3.25 \\ \hline 50.75 \end{array}$$

Rewrite each problem vertically, show all your steps, and circle your answer.

1. 687.4 + 25.32

712.72

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 687.4 \\ +\ 25.32 \\ \hline 712.72 \end{array}$$

2. 0.58 + 43.6

44.18

$$\begin{array}{r} {\scriptstyle 1} \\ .58 \\ +43.6 \\ \hline 44.18 \end{array}$$

3. 25 – 9.85

$$\begin{array}{r} {\scriptstyle 1\ 4\ 9} \\ 25.00 \\ -\ 9.85 \\ \hline 15.15 \end{array}$$

15.15

4. 34.6 – 13.75

20.85

$$\begin{array}{r} {\scriptstyle 3\ 15} \\ 34.60 \\ -\ 13.75 \\ \hline 20.85 \end{array}$$

5. 64.3 + 108 + 13.04 + 0.888

186.228

$$\begin{array}{r} {\scriptstyle 1\ 1\ 1} \\ 64.3 \\ 108.0 \\ 13.04 \\ +\ 0.888 \\ \hline 186.228 \end{array}$$

6. 16 + 1.6

17.6

$$\begin{array}{r} 16.0 \\ +\ 1.6 \\ \hline 17.6 \end{array}$$

7. 47 – 4.7

42.3

$$\begin{array}{r} {\scriptstyle 6} \\ 47.0 \\ -\ 4.7 \\ \hline 42.3 \end{array}$$

8. 3.5 – .35

3.15

$$\begin{array}{r} {\scriptstyle 4} \\ 3.50 \\ -\ .35 \\ \hline 3.15 \end{array}$$

9. 2.85 – 1.9

.95

$$\begin{array}{r} {\scriptstyle 1} \\ 2.85 \\ -\ 1.9 \\ \hline 0.95 \end{array}$$

10. 8 + 6.25

14.25

$$\begin{array}{r} 8.00 \\ +\ 6.25 \\ \hline 14.25 \end{array}$$

11. 40 – .4

39.6

$$\begin{array}{r} {\scriptstyle 3\,9} \\ 40.0 \\ -\ .4 \\ \hline 39.6 \end{array}$$

12. 85 – 9.16

75.84

$$\begin{array}{r} {\scriptstyle 7\,14\,9} \\ 85.00 \\ -\ 9.16 \\ \hline 75.84 \end{array}$$

13. 40 + .625 + 8.6 + 9

58.225

$$\begin{array}{r} {\scriptstyle 1} \\ 40.000 \\ .625 \\ 8.6 \\ +\ 9.0 \\ \hline 58.225 \end{array}$$

14. 7.23 – 5.1 + 6.25

2.13 + 6.25

8.38