fractions

$$\frac{7}{3} + \frac{5}{2} = \frac{14 + 15}{6} = \frac{29}{6}$$

$$\frac{7}{3} - \frac{5}{2} = \frac{14 - 15}{6} = \frac{-1}{6}$$

Multiplication

Ex:
$$-\frac{2}{3} \times \frac{27}{8} = \frac{2 \times 27}{3 \times 8} = \frac{54}{24} = \frac{27}{12} = \frac{9}{4}$$

$$7 \times \frac{3}{8} = \frac{7}{1} \times \frac{3}{8} = \frac{7 \times 3}{1 \times 8} = \frac{21}{8}$$

$$\frac{4}{12} \times \frac{5}{27} = \frac{12}{7} \times \frac{5}{27} = \frac{12\times 5}{1\times 27} = \frac{20}{9}$$

$$12 \times \frac{5}{27} = \frac{12}{7} \times \frac{5}{27} = \frac{12 \times 5}{1 \times 27} = \frac{20}{9}$$

$$= \frac{7}{7} \times \frac{5}{9} = \frac{20}{9}$$

Division of fractions

Reciprocal of a fraction.

$$\frac{3}{2}$$
 => reciprocal is $\frac{2}{3}$

4 => reciprocal is $\frac{1}{4}$
 $\frac{1}{8}$ => reciprocal is $\frac{1}{4}$

fraction 1 : fraction 2. = fraction 1 x Reciprocel of fraction:

$$\frac{7}{18} \div \frac{21}{3} \Rightarrow \frac{1}{18}$$

$$\frac{7}{18} \times \frac{3}{21} = \frac{7 \times 3}{18 \times 24} = \frac{1}{18}$$

$$= \frac{7}{18} \times \frac{7}{7}$$

$$= \frac{7 \times 1}{18 \times 7} = \frac{1}{18}$$

$$\frac{29}{6} = 4\frac{5}{6}$$
 $\frac{4}{6}$
 $\frac{29}{29}$
 $\frac{24}{5}$

$$45 = 6x4 + 5 = 29$$

$$4\frac{5}{6} = \frac{6\times4+5}{6} = \frac{29}{6}$$
 $4\frac{3}{8} = \frac{3}{8}$

$$\begin{array}{c} 5 \\ 4 \\ \Rightarrow 1.25 \\ 4 \\ \hline 10 \\ \hline -8 \\ \hline 20 \\ \hline -20 \\ \hline 00 \\ \hline \end{array}$$

$$\begin{array}{c} 1.25 \\ -8 \\ \hline 20 \\ \hline -20 \\ \hline \end{array}$$

$$\begin{array}{c} 1.25 \\ \hline -20 \\ \hline \end{array}$$