Fun with Fractions!

Multiplication

$\left(\frac{2}{3}\right)\left(\frac{4}{5}\right) = \frac{2\times 4}{3\times 5} = \frac{8}{15}$

$\frac{2}{5}\cdot\frac{8}{5} = \frac{16}{25}$

$2\frac{2}{5}\times 1\frac{8}{3}$

$= \left(\frac{10}{5}+\frac{2}{5}\right)\times\left(\frac{3}{3}+\frac{8}{3}\right)$

$= \frac{12}{5}\times\frac{11}{3}$

$= \frac{132}{15}$

$\frac{12}{15} \overset{\times 5}{\overset{\times 5}{}} \rightarrow \frac{10}{15}$

Addition/Subtraction

$\frac{2}{5}+\frac{1}{5} = \frac{2+1}{5} = \frac{3}{5}$

$\frac{1}{3}-\frac{2}{5}$ ($\times 5$, $\times 3$) $= \frac{5}{15} - \frac{6}{15} = -\frac{1}{15}$

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

$= \frac{8}{4}+\frac{1}{4} + \frac{15}{5}+\frac{2}{5}$

$= \frac{9\times 5}{4\times 5} + \frac{17\times 4}{5\times 4}$

$= \frac{45}{20} + \frac{68}{20}$

$= \frac{113}{20}$

$3\frac{2}{5} \overset{\times 5}{\overset{+2}{}} = \frac{3\times 5+2}{5} = \frac{17}{5}$

Division?

$4 \div 3$

$= \frac{4}{3}$

$\frac{2}{5} \div 3$

$= \frac{2}{5} \div \frac{3}{1}$

$= \frac{2}{5} \times \frac{1}{3}$

$= \frac{2}{15}$

$\frac{2}{5} \div \frac{3}{4}$

$= \frac{2}{5} \times \frac{4}{3}$

$= \frac{8}{15}$

$4(3) \div 2$

$= 12 \div 2$

$= 6$ OR $= 12 \times \frac{1}{2}$

$= \frac{12}{2}$

$= 6$

$5 + 4(3) \div 2$

$= 5 + 12 \div 2$

$= 5 + 6$

$= 11$

Putting them all together again

$3\frac{2}{5} + \frac{-2}{7}$

$= 3\frac{2}{5} - \frac{2}{7}$

$= \frac{17}{5} - \frac{2}{7}$ (×7, ×5)

$= \frac{119}{35} - \frac{10}{35}$

$= \frac{109}{35}$

$1 - 4^2[18 \div 2 + (-7)(2)]$

$= 1 - 4^2[18 \div 2 - 7(2)]$

$= 1 - 16[18 \div 2 - 7(2)]$

$= 1 - 16[9 - 7(2)]$

$= 1 - 16(9 - 14)$

$= 1 - 16(-5)$

$= 1 - (-80)$

$= 1 + 80$

$= 81$

$\frac{1}{2} \div \left(\frac{1}{3} + \frac{1}{2}\right) - \frac{2}{3}$

$= \frac{1}{2} \div \left(\frac{2}{6} + \frac{3}{6}\right) - \frac{2}{3}$

$= \frac{1}{2} \div \frac{5}{6} - \frac{2}{3}$

$= \frac{1}{2} \times \frac{6}{5} - \frac{2}{3}$

$= \frac{6}{10} - \frac{2}{3}$ (×3, ×10)

$= \frac{18}{30} - \frac{20}{30}$

$= -\frac{2}{30}$

$= -\frac{1}{15}$

Practicing is sooooo important!

Have you finished all of 1.5?

Set 1: #2ace, 3ace, 4ace, #5ace, 6ace, 7ace, 8 ,10
OR
Set 2: #1, 2aij, 3aceij, #6ace, 7ace, 10,12,13,14

Too hard to start with? Make sure you're comfortable with 1.2

Set 1: #1 a-h,3,4bcde,6a-i
OR
Set 2: #1k-p,2,3,4bce,6h-p,7,8