



Fractions

(Back to Basics Maths)

Addition, subtraction method:

$$\frac{3}{10} + \frac{4}{5} = \text{X cannot do!}$$

Solution? Make denominator the same eg 10

$$\frac{3}{10} + \frac{4}{5} \times 2 = \frac{3}{10} + \frac{8}{10} = \frac{3+8}{10} = \frac{11}{10} = \frac{1}{10} \text{ Answer}$$

SAME ✓

$$\frac{7}{15} - \frac{2}{5} = \text{X cannot do}$$
$$\frac{7}{15} - \frac{2}{5} \times 3 = \frac{7}{15} - \frac{6}{15} = \frac{7-6}{15} = \frac{1}{15} \text{ Answer}$$

SAME ✓

Multiplication method:

$$\frac{8}{3} \times \frac{9}{11} = \frac{8 \times 9}{3 \times 11} = \frac{72}{33} \xrightarrow[\div 3]{\text{simplify}} \frac{24}{11} = 2\frac{2}{11} \text{ Answer}$$

EASY METHOD!



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Division method:

$$\frac{3}{12} \div \frac{2}{3} = \text{X easier way to do this}$$

FLIP the SECOND Fraction and multiply instead.
FLIP one fraction and multiply.

$$\frac{3}{12} \times \frac{3}{2} \xrightarrow{\text{Flipped}} \frac{3 \times 3}{12 \times 2} = \frac{9}{24} \xrightarrow{\text{simplify } \div 3} \left(\frac{3}{8} \right) \text{ Answer!}$$

Practice makes perfect! Try the problems below:

GCSE Maths practice booklet – http://www.mathedup.co.uk/wp-content/uploads/2015/03/27_fractions_adding_subtracting_multiplying-and-dividing2.pdf

Solutions to the above - <http://www.mathedup.co.uk/wp-content/uploads/2014/05/27.pdf>