SUMA Y RESTA DE FRACCIONES

Recuerda que una vez efectuada la operación debes hallar la fracción irreducible.

PRODUCTOS CRUZADOS

$$\frac{3}{4} + \frac{5}{7} = \frac{3 \times 7}{4 \times 7} + \frac{5 \times 4}{7 \times 4} = \frac{21}{28} + \frac{20}{28} = \frac{41}{28}$$

$$\frac{2}{9} + \frac{3}{4} + \frac{7}{5} = \frac{2 \times 4 \times 5}{9 \times 4 \times 5} + \frac{3 \times 9 \times 5}{4 \times 9 \times 5} + \frac{7 \times 9 \times 4}{5 \times 9 \times 4} = \frac{40}{180} + \frac{135}{180} + \frac{252}{180} = \frac{427}{180}$$

$$\frac{4}{5} - \frac{3}{10} = \frac{4 \times 10}{5 \times 10} - \frac{3 \times 5}{10 \times 5} = \frac{40}{50} - \frac{15}{50} = \frac{25}{50} = \frac{1}{2}$$

$$\frac{3}{5} + \frac{1}{2} + \frac{3}{4} = \frac{3 \times 2 \times 4}{5 \times 2 \times 4} + \frac{1 \times 5 \times 4}{2 \times 5 \times 4} + \frac{3 \times 5 \times 2}{4 \times 5 \times 2} = \frac{24}{40} + \frac{20}{40} + \frac{30}{40} = \frac{74}{40} = \frac{37}{20}$$

MÍNIMO COMÚN MÚLTIPLO

$$\frac{a}{b} = \frac{a \times (m.c.m. : b)}{m.c.m.}$$

$\frac{3}{4} + \frac{2}{6}$ m.c.m. (4,6) = 12

$$\frac{3}{4} + \frac{1}{6} = \frac{3 \times (12 : 4)}{12} + \frac{1 \times (12 : 6)}{12} = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

$\frac{5}{9} + \frac{7}{18} + \frac{7}{12}$ m.c.m. (9,18,12) = 36

$$\frac{5}{9} + \frac{7}{18} + \frac{7}{12} = \frac{5 \times (36 : 9)}{36} + \frac{7 \times (36 : 18)}{36} + \frac{7 \times (36 : 12)}{36} = \frac{20}{36} + \frac{14}{36} + \frac{21}{36} = \frac{55}{36}$$

$$\frac{4}{5} - \frac{3}{10} \qquad \text{m.c.m. } (5,10) = 10$$

$$\frac{4}{5} - \frac{3}{10} = \frac{4 \times (10 : 5)}{10} - \frac{3 \times (10 : 10)}{10} = \frac{8}{10} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$$

$$\frac{5}{6} + \frac{3}{28} + \frac{3}{7} \qquad \text{m.c.m. } (6,28,7) = 84$$

$$\frac{5}{6} + \frac{3}{28} + \frac{4}{7} = \frac{5 \times (84 : 6)}{84} + \frac{3 \times (84 : 28)}{84} + \frac{4 \times (84 : 7)}{84} = \frac{70}{84} + \frac{9}{84} + \frac{48}{84} = \frac{127}{84}$$