

FRACCIONES

Problema 15:

Resolver

$$\left(\frac{1\frac{1}{4} - \frac{5}{12}}{1\frac{1}{4} + \frac{5}{12}} + \frac{7}{6} \right) \times \left(\frac{9 \times 5}{14 \times 3} - \frac{6\frac{3}{7}}{15} \right)$$

Solución Problema 15:

Convertimos los números mixtos en fracciones ordinarias:

$$1\frac{1}{4} = \frac{4+1}{4} = \frac{5}{4}$$

$$6\frac{3}{7} = \frac{42+3}{7} = \frac{45}{7}$$

A continuación sustituimos su valor en la fracción original y operamos en ella:

$$\left(\frac{\frac{5}{4} - \frac{5}{12}}{\frac{5}{4} + \frac{5}{12}} + \frac{7}{6} \right) \times \left(\frac{9 \times 5}{14 \times 3} - \frac{\frac{45}{7}}{15} \right) =$$

$$\left(\frac{\frac{5}{4} - \frac{5}{12}}{\frac{5}{4} + \frac{5}{12}} + \frac{7}{6} \right) \times \left(\frac{\cancel{3} \times 3 \times 5}{14 \times \cancel{3}} - \frac{\frac{45}{7}}{\cancel{15}} \right)$$

$$\left(\frac{\frac{15}{12} - \frac{5}{12}}{\frac{15}{12} + \frac{5}{12}} + \frac{7}{6} \right) \times \left(\frac{3 \times 5}{14} - \frac{3 \times \cancel{15}}{\cancel{15} \times 7} \right)$$

FRACCIONES: Problema 15

$$\left(\frac{10}{20} + \frac{7}{6}\right) X \left(\frac{3X5}{14} - \frac{3x\cancel{15}}{\cancel{15}x7}\right) = \left(\frac{\cancel{10}}{2x\cancel{10}} + \frac{7}{6}\right) X \left(\frac{3X5}{14} - \frac{3}{7}\right)$$

$$\left(\frac{1}{2} + \frac{7}{6}\right) X \left(\frac{15}{14} - \frac{3}{7}\right) = \frac{3+7}{6} X \frac{15-6}{14} = \frac{10x9}{6x14} =$$

$$\frac{\cancel{2}x5x\cancel{3}x3}{\cancel{2}x\cancel{3}x14} = \frac{15}{14} = 1\frac{1}{14}$$