

FRACCIONES

Problema 28:

Resolver

$$\frac{\frac{4}{9} \times \frac{5}{7} \div \frac{2}{3} + \frac{5}{8} \times 0,6 - \frac{1}{2} \div \frac{3}{5}}{3 \div \frac{7}{5} + \frac{1}{4} \left(\frac{1}{2} - 0,4 \right)} \times \left(11^2 + \frac{2}{5} \right)$$

Solución Problema 28:

Convertimos las fracciones decimales en fracciones ordinarias:

$$0,6 = \frac{6}{10} = \frac{\cancel{2} \times 3}{\cancel{2} \times 5} = \frac{3}{5}$$

$$0,4 = \frac{4}{10} = \frac{\cancel{2} \times 2}{\cancel{2} \times 5} = \frac{2}{5}$$

Sustituimos su valor en la fracción original y operamos en ella:

$$\frac{\frac{4}{9} \times \frac{5}{7} \div \frac{2}{3} + \frac{5}{8} \times \frac{3}{5} - \frac{1}{2} \div \frac{3}{5}}{3 \div \frac{7}{5} + \frac{1}{4} \left(\frac{1}{2} - \frac{2}{5} \right)} \times \left(121 + \frac{2}{5} \right)$$

$$\frac{\frac{20}{63} \div \frac{2}{3} + \frac{5}{8} \times \frac{3}{5} - \frac{1}{2} \div \frac{3}{5}}{\frac{15}{7} + \frac{1}{4} \left(\frac{1 \times 5 - 2 \times 2}{10} \right)} \times \left(121 + \frac{2}{5} \right)$$

$$\frac{\frac{20 \times 3}{63 \times 2} + \frac{3}{8} - \frac{5}{6}}{\frac{15}{7} + \frac{1}{4} \left(\frac{1}{10} \right)} \times \left(121 + \frac{2}{5} \right)$$

FRACCIONES: Problema 28

$$\frac{\frac{2 \times 10 \times 3}{21 \times 3 \times 2} + \frac{3}{8} - \frac{5}{6}}{\frac{15}{7} + \frac{1}{40}} \times \left(\frac{605 + 2}{5}\right)$$

$$\frac{\frac{10}{21} + \frac{3}{8} - \frac{5}{6}}{\frac{15}{7} + \frac{1}{40}} \times \left(\frac{607}{5}\right)$$

$$\frac{\frac{10 \times 8 + 3 \times 21 - 5 \times 28}{168}}{\frac{15 \times 40 + 7}{280}} \times \left(\frac{607}{5}\right)$$

$$\frac{\frac{80 + 63 - 140}{168}}{\frac{607}{280}} \times \left(\frac{607}{5}\right)$$

$$\frac{\frac{3}{168}}{\frac{607}{280}} \times \left(\frac{607}{5}\right) = \frac{3 \times 280 \times \cancel{607}}{168 \times \cancel{607} \times 5} = \frac{3 \times 280}{168 \times 5} = \frac{840}{840} = \mathbf{1}$$