

EJERCICIOS RESUELTOS

$$a \cdot b \cdot c = [a \cdot b] \cdot c = a \cdot [b \cdot c]$$

**Propiedad
asociativa de
la
multiplicación**

$$1) -\frac{5}{3} \cdot \left(\frac{5}{8} \cdot \frac{10}{4}\right) = -\frac{5}{3} \cdot \frac{50}{32} = -\frac{250}{96} = -\frac{125}{48}$$

$$2) \frac{1}{2} \cdot \frac{4}{3} \cdot \frac{5}{4} \cdot \frac{6}{5} = \left(\frac{1}{2} \cdot \frac{4}{3}\right) \cdot \left(\frac{5}{4} \cdot \frac{6}{5}\right) = \frac{4}{6} \cdot \frac{30}{20} = \frac{120}{120}$$

$$3) -9 \cdot (-5 \cdot 6) = -9 \cdot (-30) = 270$$

$$4) [50 \cdot (-3)] \cdot (-2) = (-150) \cdot (-2) = 300$$

**propiedad
distributiva
de la
multiplicación
respecto a la
suma**

$$1) \frac{3}{5} \cdot \left(\frac{7}{9} + \frac{10}{21}\right) = \frac{21^7}{45^{15}} + \frac{30^{10^2}}{105^{35^7}} = \frac{7}{15} + \frac{2}{7} = \frac{49+30}{105} = \frac{79}{105}$$

$$2) \left(\frac{1}{2} + \frac{4}{3} - \frac{5}{4}\right) \cdot \left(-\frac{6}{5}\right) = -\frac{6^3}{10^5} - \frac{24^8}{15^3} + \frac{30^3}{20^2} = -\frac{3}{5} - \frac{8}{5} + \frac{3}{2} = \frac{-6-16+15}{10} = -\frac{7}{10}$$

$$3) \left(-\frac{3}{10} + \frac{5}{6}\right) \cdot \left(\frac{1}{2} - \frac{2}{3}\right) =$$

Se multiplican las fracciones y sus respectivos signos.

$$-\frac{3}{20} + \frac{1}{30^5} + \frac{5}{12} - \frac{10^5}{18^9} = -\frac{3}{20} + \frac{1}{5} + \frac{5}{12} - \frac{5}{9} =$$

$$\frac{-27+36+75-100}{180} = -\frac{16}{180} = -\frac{8}{90} = -\frac{4}{45}$$