

**OPERACIONES CON FRACCIONES****EJERCICIO 1:** Calcula paso a paso y simplifica los resultados:

$$\begin{aligned}
 \text{a)} \quad & \frac{2}{5} : 3 + \frac{1}{3} \cdot \left[3 - \frac{4}{5} : \left(1 - \frac{3}{4} \right) \right] = \\
 & = \frac{2}{5} : \frac{3}{1} + \frac{1}{3} \cdot \left[3 - \frac{4}{5} : \left(\frac{4}{4} - \frac{3}{4} \right) \right] = \\
 & = \frac{2}{5} : \frac{3}{1} + \frac{1}{3} \cdot \left[3 - \frac{4}{5} : \frac{1}{4} \right] = \\
 & = \frac{2}{15} + \frac{1}{3} \cdot \left[3 - \frac{4}{5} \cdot 4 \right] = \\
 & = \frac{2}{15} + \frac{1}{3} \cdot \left[\frac{3}{1} - \frac{16}{5} \right] = \\
 & = \frac{2}{15} + \frac{1}{3} \cdot \frac{3}{5} = \frac{2}{15} + \frac{1}{5} = \frac{2}{15} + \frac{3}{15} = \frac{5}{15} = \frac{1}{3}
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad & \frac{\frac{2}{3} + \frac{1}{2}}{\frac{3}{5} - \frac{1}{5} \cdot \frac{3}{2}} = \frac{\frac{4}{6} + \frac{3}{6}}{\frac{3}{5} - \frac{3}{10}} = \frac{\frac{7}{6}}{\frac{6}{10} - \frac{3}{10}} = \\
 & = \frac{7}{6} : \frac{3}{10} = \frac{7}{6} \cdot \frac{10}{3} = \frac{70}{18} = \frac{35}{9}
 \end{aligned}$$