

Resolver las siguientes operaciones con fracciones, **simplificando en todo momento** los pasos intermedios y el resultado:

1.  $\frac{2}{3} + \left[ 1 - \left( \frac{3}{4} - \frac{1}{6} \right) \right] =$

(Soluc: 13/12)

2.  $\frac{4}{5} - \frac{7}{3} \cdot \frac{3}{7} + \frac{1}{5} \left( 2 + \frac{1}{2} \right) - \frac{7}{3} + 4 : \frac{6}{5} =$

(Soluc: 13/10)

3.  $\frac{2}{3} + \frac{5}{4} \left( \frac{3}{5} + \frac{4}{10} \right) - \frac{5}{4} + \left( \frac{3}{5} : 4 \right) + \frac{12}{5} =$

(Soluc: 193/60)

4.  $2 + \frac{1}{5} : \left( 2 + \frac{7}{3} - \frac{2}{4} + \frac{5}{3} \right) =$

(Soluc: 112/55)

5.  $\left( \frac{2}{7} - \frac{4}{5} + \frac{2}{8} \right) \cdot \frac{3}{2} - \frac{7}{5} : \frac{4}{7} =$

(Soluc: -797/280)

6.  $\frac{17}{9} - \frac{15}{5} + \frac{4}{3} : \left( \frac{1}{5} + \frac{2}{3} - \frac{1}{15} \right) + \frac{14}{3} : \frac{16}{8} =$

(Soluc: 26/9)

7.  $\frac{21}{5} + \frac{15}{4} \cdot \frac{16}{3} - \frac{15}{30} + \frac{12}{4} : \frac{5}{4} + 3 =$

(Soluc: 291/10)

8.  $\frac{2}{3} - \left[ \frac{3}{2} - \frac{1}{5} - \left( \frac{2}{5} - \frac{1}{3} \right) + \left( \frac{6}{5} - \frac{1}{2} \right) \right] - \frac{3}{4} + \left( \frac{1}{2} - \frac{1}{3} \right) =$

(Soluc: -37/20)

$$9. 2 - \left[ \frac{4}{3} - \left( \frac{1}{2} + \frac{2}{5} \right) - \frac{1}{3} \right] - \left( \frac{4}{3} + 2 \right) - \frac{1}{5} =$$

(Soluc: -49/30)

$$10. 2 + \left( \frac{5}{2} - 3 \right) - \left[ \frac{7}{10} - \left( \frac{2}{5} + \frac{1}{4} \right) \right] =$$

(Soluc: 29/20)

$$11. -\frac{3}{8} + \left( 4 - \frac{1}{2} \right) - \left[ \left( 2 - \frac{5}{4} \right) + \left( \frac{7}{2} - \frac{1}{8} \right) \right] =$$

(Soluc: -1)

$$12. \left( \frac{4}{3} - \frac{-1}{9} \right) + \left[ 2 - \left( -\frac{5}{4} + \frac{2}{3} \right) \right] - \frac{7}{2} =$$

(Soluc: 19/36)

$$13. \left[ \left( \frac{4}{6} + \frac{1}{2} \right) : \left( \frac{4}{3} - \frac{5}{12} \right) \right] \cdot \left( \frac{1}{6} + \frac{1}{15} \right) =$$

(Soluc: 31/165)

$$14. \left( \frac{1}{3} - \frac{4}{5} \right) \cdot \left[ \left( \frac{1}{3} - 1 \right) \cdot 3 - \frac{1 + 2/5}{3} \right] =$$

(Soluc: 259/225)

$$15. \frac{4}{5} : \left[ \frac{12}{16} \left( \frac{1}{6} + \frac{2}{3} \right) - \frac{3}{8} \right] - 3 \left[ \frac{1}{6} : \left( 1 - \frac{2}{5} \right) \right] =$$

(Soluc: 71/30)

$$16. \frac{3}{2} - \frac{1}{2} \cdot \frac{4}{3} : \left( \frac{4}{3} - \frac{2}{3} \cdot \frac{15}{8} + 1 \right) =$$

(Soluc: 23/26)