



Soluciones

1 Completa los signos y las casillas numéricas y, al final, simplifica.

$$\begin{aligned} \text{a) } \frac{1}{5} - \left[\frac{1}{4} - \left(\frac{3}{10} + \frac{1}{2} \right) \right] &= \frac{1}{5} - \left[\frac{1}{4} \ominus \frac{3}{10} \ominus \frac{1}{2} \right] = \\ &= \frac{1}{5} \ominus \frac{1}{4} \oplus \frac{3}{10} \oplus \frac{1}{2} = \frac{\boxed{4}}{20} \ominus \frac{\boxed{5}}{20} \oplus \frac{\boxed{6}}{20} \oplus \frac{\boxed{10}}{20} = \\ &= \frac{\boxed{20} - \boxed{5}}{\boxed{20}} = \frac{\boxed{15}}{\boxed{20}} = \frac{\boxed{3}}{\boxed{4}} \end{aligned}$$

$$\begin{aligned} \text{b) } \left(\frac{2}{3} - \frac{1}{5} \right) - \left[1 - \left(\frac{5}{6} - \frac{1}{10} \right) \right] &= \left(\frac{2}{3} - \frac{1}{5} \right) - \left[1 \ominus \frac{5}{6} \oplus \frac{1}{10} \right] = \\ &= \frac{2}{3} \ominus \frac{1}{5} \ominus 1 \oplus \frac{5}{6} \ominus \frac{1}{10} = \frac{2}{3} \ominus \frac{1}{5} \ominus \frac{1}{1} \oplus \frac{5}{6} \ominus \frac{1}{10} = \\ &= \frac{\boxed{20}}{30} \ominus \frac{\boxed{6}}{30} \ominus \frac{\boxed{30}}{30} \oplus \frac{\boxed{25}}{30} \ominus \frac{\boxed{3}}{30} = \frac{\boxed{45} - \boxed{39}}{\boxed{30}} = \frac{\boxed{6}}{\boxed{30}} = \frac{\boxed{1}}{\boxed{5}} \end{aligned}$$

2 Completa y, al final, simplifica.

$$\begin{aligned} \text{a) } \frac{1}{5} - \left[\frac{1}{4} - \left(\frac{3}{10} + \frac{1}{2} \right) \right] &= \frac{1}{5} - \left[\frac{1}{4} - \left(\frac{3}{10} + \frac{\boxed{5}}{10} \right) \right] = \frac{1}{5} - \left[\frac{1}{4} - \frac{\boxed{8}}{10} \right] = \\ &= \frac{1}{5} - \left[\frac{\boxed{5}}{20} - \frac{\boxed{16}}{20} \right] = \frac{1}{5} - \left[-\frac{\boxed{11}}{20} \right] = \frac{1}{5} + \frac{\boxed{11}}{20} = \frac{\boxed{4}}{20} + \frac{11}{20} = \frac{\boxed{15}}{20} = \frac{\boxed{3}}{\boxed{4}} \end{aligned}$$

$$\begin{aligned} \text{b) } \left(\frac{2}{3} - \frac{1}{5} \right) - \left[1 - \left(\frac{5}{6} - \frac{1}{10} \right) \right] &= \left(\frac{\boxed{10}}{15} - \frac{\boxed{3}}{15} \right) - \left[1 - \left(\frac{\boxed{25}}{30} - \frac{\boxed{3}}{30} \right) \right] = \\ &= \frac{\boxed{7}}{15} - \left[1 - \frac{\boxed{22}}{30} \right] = \frac{\boxed{7}}{15} - \left[1 - \frac{\boxed{11}}{15} \right] = \frac{\boxed{7}}{15} - \left[\frac{\boxed{15}}{15} - \frac{\boxed{11}}{15} \right] = \\ &= \frac{\boxed{7}}{15} - \frac{\boxed{4}}{15} = \frac{\boxed{3}}{15} = \frac{\boxed{1}}{\boxed{5}} \end{aligned}$$



Soluciones

3 Opera y simplifica.

$$a) \left(\frac{3}{4} + \frac{5}{8}\right) - \left(\frac{1}{2} - \frac{3}{8}\right) = \frac{5}{4}$$

$$b) 2 - \left(\frac{3}{4} + \frac{1}{2} + \frac{1}{3}\right) = \frac{5}{12}$$

$$c) \left(1 + \frac{1}{4}\right) - \left(\frac{1}{3} + \frac{1}{6}\right) = \frac{3}{4}$$

$$d) \left(\frac{5}{6} - \frac{2}{3}\right) - \left(\frac{1}{4} + \frac{1}{8}\right) = \frac{-5}{24}$$

$$e) \frac{4}{5} - \left[\frac{2}{3} - \left(1 - \frac{3}{5}\right)\right] = \frac{8}{15}$$

$$f) \left(\frac{2}{3} - \frac{1}{4}\right) - \left[\frac{3}{10} + \left(\frac{1}{5} + \frac{1}{2}\right)\right] = \frac{-7}{12}$$

$$g) \left[\frac{4}{5} + \left(\frac{11}{12} - \frac{1}{6}\right)\right] - \left[1 - \left(\frac{4}{5} - \frac{7}{10}\right)\right] = \frac{13}{20}$$

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