



9. Refuerza las operaciones combinadas de fracciones

Soluciones

1 Calcula y completa con una fracción irreducible.

$$a) \frac{5}{7} \cdot \left(\frac{2}{5} + 1 \right) = \frac{\boxed{35}}{\boxed{35}} = \boxed{1}$$

$$b) \frac{2}{3} \cdot \left(\frac{2}{3} - 1 \right) = \frac{\boxed{-2}}{\boxed{9}}$$

$$c) \frac{3}{14} : \left(1 - \frac{5}{7} \right) = \frac{\boxed{3}}{\boxed{4}}$$

$$d) \left(\frac{2}{3} - \frac{1}{4} \right) : \frac{5}{6} = \frac{\boxed{1}}{\boxed{2}}$$

$$e) \left(\frac{1}{2} + \frac{1}{7} \right) \cdot \left(\frac{5}{6} + \frac{1}{3} \right) = \frac{\boxed{3}}{\boxed{4}}$$

$$f) \left(\frac{5}{9} - \frac{2}{3} \right) \cdot \left(\frac{6}{5} - 3 \right) = \frac{\boxed{1}}{\boxed{5}}$$

$$g) \left(1 - \frac{7}{10} \right) : \left(\frac{2}{3} - \frac{1}{5} \right) = \frac{\boxed{9}}{\boxed{14}}$$

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

2 Resuelve, simplifica y completa.

$$a) \frac{\frac{2}{3} - \frac{3}{5}}{1 - \frac{1}{5}} = \frac{\boxed{1}}{\boxed{12}}$$

$$b) \frac{\frac{1}{3} - \frac{1}{7}}{\frac{1}{3} + \frac{1}{7}} = \frac{\boxed{2}}{\boxed{5}}$$

$$c) \frac{2 \cdot \left(\frac{3}{4} - \frac{1}{5} \right)}{(-3) \cdot \left(\frac{3}{10} - \frac{8}{15} \right)} = \frac{\boxed{11}}{\boxed{7}}$$

$$d) \frac{(-4) \cdot \left(\frac{1}{2} + \frac{3}{5} \right)}{(-11) \cdot \left(\frac{3}{2} - \frac{1}{5} \right)} = \frac{\boxed{4}}{\boxed{13}}$$

3 Completa con una fracción irreducible.

$$a) (-2) \cdot \left(1 - \frac{1}{2} - \frac{1}{3} \right) - \left(\frac{2}{5} - \frac{3}{10} \right) : \left(\frac{1}{5} - \frac{1}{3} \right) = \frac{\boxed{5}}{\boxed{12}}$$

$$b) \frac{3}{10} : \left(\frac{1}{3} - \frac{3}{5} + \frac{1}{2} \right) + 5 \cdot \left(\frac{3}{7} - \frac{2}{3} \right) = \frac{\boxed{2}}{\boxed{21}}$$

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