

Combinadas 2º ESO:

Ejercicios resueltos:

1º

$$5\frac{1}{4} + 1\frac{1}{6} = \frac{5 \cdot 4 + 1}{4} + \frac{1 \cdot 6 + 1}{6} = \frac{21}{4} + \frac{7}{6} = \frac{63 + 14}{12} = \frac{77}{12}$$

2º

$$\frac{1}{2} \cdot \left(\frac{3}{4} + \frac{1}{8}\right) = \frac{1}{2} \cdot \left(\frac{6+1}{8}\right) = \frac{1}{2} \cdot \frac{7}{8} = \frac{7}{16}$$

3º

$$\frac{\left(2 - \frac{1}{5}\right)^2}{\left(3 - \frac{2}{9}\right)^{-1}} : \frac{\left(\frac{6}{7} - \frac{5}{4} - \frac{2}{7} : \frac{1}{2}\right)^3}{\left(\frac{1}{2} - \frac{1}{3} - \frac{1}{4} : \frac{1}{5}\right)} - 5\frac{1}{7} =$$

$$= \frac{\left(\frac{10-1}{5}\right)^2}{\left(\frac{27-2}{9}\right)^{-1}} : \frac{\left(\frac{30-4}{28-\frac{4}{7}}\right)^3}{\left(\frac{1}{2} - \frac{1}{12} : \frac{1}{5}\right)} - \frac{35+1}{7} =$$

$$= \frac{\left(\frac{9}{5}\right)^2}{\left(\frac{25}{9}\right)^{-1}} : \frac{\left(\frac{15-4}{14-\frac{4}{7}}\right)^3}{\left(\frac{1}{2} - \frac{5}{12}\right)} - \frac{36}{7} =$$

$$= \frac{\left(\frac{9}{5}\right)^2}{\left(\frac{25}{9}\right)^{-1}} : \frac{\left(\frac{15-8}{14}\right)^3}{\left(\frac{6-5}{12}\right)} - \frac{36}{7} =$$

$$= \frac{\left(\frac{9}{5}\right)^2}{\left(\frac{25}{9}\right)^{-1}} : \frac{\left(\frac{1}{2}\right)^3}{\frac{1}{12}} - \frac{36}{7} =$$

$$= \frac{81}{25} : \frac{1}{8} - \frac{36}{7} = \frac{81}{9} : \frac{12}{8} - \frac{36}{7} =$$

$$= 9 : \frac{3}{2} - \frac{36}{7} = \frac{18}{3} - \frac{36}{7} = 6 - \frac{36}{7} = \frac{42-36}{7} = \frac{6}{7}$$

Ejercicios Propuestos:

Ejercicios:

$$\left(3 + \frac{1}{4}\right) - \left(2 + \frac{1}{6}\right) = \frac{13}{12}$$

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

$$\left(\frac{5}{3} - 1\right) \cdot \left(\frac{7}{2} - 2\right) = 1$$

$$\left(\frac{3}{4} + \frac{1}{2}\right) : \left(\frac{5}{3} + \frac{1}{6}\right) = \frac{15}{22}$$

$$\frac{2}{3} : \left[5 : \left(\frac{2}{4} + 1\right) - 3\left(\frac{1}{2} - \frac{1}{4}\right)\right] = \frac{8}{31}$$

$$\left[\left(\frac{2}{3} - \frac{1}{9}\right) + 13\left(\frac{2}{3} - 1\right)^2\right] : \left[\left(\frac{1}{2} - 1\right) : 2\frac{1}{2}\right] = -10$$