



Operaciones combinadas con quebrados / fracciones

Solución

* *Calcula y simplifica siempre que puedas.*

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

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

$$\left[\frac{20-9}{12} \right] + 1$$

$$\frac{11}{12} + 1$$

$$\frac{11+12}{12} = \frac{23}{12}$$

$$\frac{3}{5} \times \left(\frac{3}{8} + \frac{1}{6} \right) : \frac{4}{6}$$

$$\frac{3}{5} \times \left(\frac{9+4}{24} \right) : \frac{4}{6}$$

$$\frac{3}{5} \times \frac{13}{24} : \frac{4}{6}$$

$$\frac{39}{120} : \frac{4}{6}$$

$$\frac{234}{480} \stackrel{:2}{=} \frac{117}{240} \stackrel{:3}{=} \frac{39}{80}$$

$$8 + \left[\frac{7}{2} \times \left(\frac{2}{3} : \frac{1}{4} \right) \right]$$

$$8 + \left[\frac{7}{2} \times \frac{8}{3} \right]$$

$$8 + \frac{56}{6} = \frac{48+56}{6}$$

$$\frac{104}{6} \stackrel{:2}{=} \frac{52}{3}$$

$$\left[\frac{5}{3} : \left(\frac{2}{5} - \frac{1}{6} \right) \right] \times 2$$

$$\left[\frac{5}{3} : \left(\frac{12-5}{30} \right) \right] \times 2$$

$$\left[\frac{5}{3} : \frac{7}{30} \right] \times 2$$

$$\frac{150}{21} \times 2 = \frac{300}{21} \stackrel{:3}{=} \frac{100}{7}$$

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

$$\left(\frac{1+6}{4} \right) \times \left(\frac{25-12}{15} \right)$$

$$\frac{7}{4} \times \frac{13}{15} = \frac{91}{60}$$

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

$$\frac{8}{5} - \frac{9}{8} + \frac{3}{8}$$

$$\frac{64-45+15}{40}$$

$$\frac{19+15}{40} = \frac{34}{40} \stackrel{:2}{=} \frac{17}{20}$$

$$\frac{11}{8} : \left(\frac{3}{4} - \frac{1}{2} \right) - \frac{5}{6}$$

$$\frac{11}{8} : \left(\frac{3-2}{4} \right) - \frac{5}{6}$$

$$\frac{11}{8} : \frac{1}{4} - \frac{5}{6}$$

$$\frac{44}{8} - \frac{5}{6} = \frac{132-20}{24}$$

$$\frac{112}{24} \stackrel{:4}{=} \frac{28}{6} \stackrel{:2}{=} \frac{14}{3}$$

$$\frac{8}{3} - \frac{2}{5} : \left(\frac{1}{6} + \frac{4}{3} \right) \times 2$$

$$\frac{8}{3} - \frac{2}{5} : \left(\frac{1+8}{6} \right) \times 2$$

$$\frac{8}{3} - \frac{2}{5} : \frac{9}{6} \times 2$$

$$\frac{8}{3} - \frac{12}{45} \times 2 = \frac{8}{3} - \frac{24}{45}$$

$$\frac{120-24}{45} = \frac{96}{45} \stackrel{:3}{=} \frac{32}{15}$$

$$6 \times \frac{2}{3} - \frac{1}{2} \times \frac{3}{4} + \left(4 + \frac{6}{5} \right)$$

$$6 \times \frac{2}{3} - \frac{1}{2} \times \frac{3}{4} + \left(\frac{20+6}{5} \right)$$

$$6 \times \frac{2}{3} - \frac{1}{2} \times \frac{3}{4} + \frac{26}{5}$$

$$\frac{12}{3} - \frac{3}{10} + \frac{26}{5} = \frac{120-9+156}{30}$$

$$\frac{111+156}{30}$$

$$\frac{267}{30} \stackrel{:3}{=} \frac{89}{10}$$

$$\left(\frac{2}{7} + \frac{1}{2} \times \frac{3}{2} \right) + \frac{4}{2} \times 7$$

$$\left(\frac{2}{7} + \frac{3}{4} \right) + \frac{4}{2} \times 7$$

$$\left(\frac{8+21}{28} \right) + \frac{4}{2} \times 7$$

$$\frac{29}{28} + \frac{4}{2} \times 7 = \frac{37}{56} + \frac{28}{2} =$$

$$\frac{37+784}{56}$$

$$\frac{821}{56}$$

$$\frac{9}{4} - \left(\frac{2}{5} + \frac{1}{3} \right) - \frac{11}{15}$$

$$\frac{9}{4} - \left(\frac{6+5}{15} \right) - \frac{11}{15}$$

$$\frac{9}{4} - \frac{11}{15} - \frac{11}{15}$$

$$\frac{27-11-11}{15}$$

$$\frac{16-11}{15} = \frac{5}{15} \stackrel{:5}{=} \frac{1}{3}$$

$$\frac{15}{2} - \left(\frac{2}{3} : 2 \right) \times \frac{7}{4}$$

$$\frac{15}{2} - \frac{2}{6} \times \frac{7}{4}$$

$$\frac{15}{2} - \frac{14}{24}$$

$$\frac{180-14}{24} = \frac{166}{24} \stackrel{:2}{=} \frac{83}{8}$$

