

Calcola il risultato delle seguenti espressioni tra frazioni:

$$\bullet \frac{(2^{-3} - 2^{-2}) \cdot (-2)^3 + \left[5^{-2} - \left(-\frac{1}{3} \right)^2 \right] : \left(-\frac{4}{15} \right)^2}{\left(-\frac{1}{3} - 1 \right) \cdot \left(\frac{1}{3} + 1 \right) - \left(-\frac{3}{2} \right)^{-2} \cdot \left(-\frac{1}{3} \right)^{-1}}$$

$$\bullet \left(1 + \frac{1}{2} \right) \cdot \left\{ \frac{\left(\frac{3}{11} - \frac{1}{2} \right) : \left(\frac{7}{22} - 1 \right) - \left(\frac{1}{3} + 1 \right) : \left(\frac{1}{6} - 1 \right)}{\left[\left(-\frac{1}{2} \right)^2 - \left(-\frac{1}{3} \right)^2 \right] : \left(-\frac{5}{6} \right)^2} - 3^2 \right\}$$

ESERCIZI

$$\left[2 + \frac{1}{5} + \frac{1}{3} - \left(\frac{1}{4} + \frac{7}{8} - \frac{3}{4} \right) : \left(\frac{3}{2} \right)^2 \right] : \left[\left(1 - \frac{3}{5} \right)^2 \times \frac{15}{4} + \left(\frac{1}{2} + \frac{2}{5} - \frac{3}{5} \right) \right]$$

$$\left\{ \left(\frac{3}{16} \times \frac{12}{9} + \frac{2}{3} \right) : \left[3 - \frac{14}{25} \times \left(1 - \frac{1}{8} + \frac{9}{4} \right) - \frac{1}{4} \right] \right\}^2 \times \frac{12}{11}$$

$$\left\{ \left[\frac{13}{7} - \left(1 - \frac{1}{2} \right)^2 \right] : \left[\left(1 - \frac{1}{7} \right) - \left(\frac{1}{2} \right)^2 \right] \right\} \times \frac{14}{45} - \left(1 - \frac{1}{2} \right)$$

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