

## ESERCIZI CON LE FRAZIONI

- 1)  $\frac{3}{10} + \frac{2}{15} + \frac{1}{30}$  ;  $2 - \frac{5}{6} + \frac{4}{15} - \frac{1}{3}$  ;  $\left(\frac{1}{3} + 1\right) + \left(\frac{1}{4} + 1\right)$
- 2)  $3 - \frac{7}{3} + \frac{1}{6}$  ;  $\left(\frac{1}{2} + 2\right) + \left(\frac{3}{4} + 3\right)$  ;  $\left(2 + \frac{1}{3}\right) - \left(\frac{3}{4} + \frac{1}{10}\right)$
- 3)  $\left(\frac{1}{2} + \frac{1}{3}\right) \cdot \left(\frac{3}{10} + \frac{7}{15}\right)$  ; ;  $\left(\frac{7}{5} - 1\right) \cdot \left(\frac{4}{3} - \frac{11}{12}\right) \div \frac{5}{36}$
- 4)  $\left(2 + \frac{1}{2} + \frac{2}{3}\right) \div \left(1 + \frac{9}{15} - \frac{7}{21}\right) - \left(\frac{1}{2} + \frac{2}{11}\right)$

Applicando le proprietà delle potenze calcola

- 1)  $\left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right)^4 =$  ;  $\left(\frac{2}{3}\right)^7 \div \left(\frac{2}{7}\right)^3 =$  ;  $\left(\frac{1}{3}\right)^3 \div \left(\frac{1}{3}\right)^3 =$
- 2)  $\left(\frac{7}{5}\right)^4 \cdot \left(\frac{7}{5}\right)^2 \div \left(\frac{7}{5}\right)^3 =$  ;  $\left[\left(\frac{2}{3}\right)^4\right]^2 =$  ;  $\left(\frac{1}{2}\right)^2 \cdot \left[\left(\frac{1}{2}\right)^2\right]^2 =$
- 3)  $\left[\frac{2}{7} \cdot \left(3 - \frac{5}{4}\right)\right]^2 - \left[\frac{5}{2} \cdot \left(\frac{4}{5} - \frac{2}{3}\right)\right]^2 =$
- 4)  $\frac{17}{10} \div \left(\frac{1}{5} - \frac{1}{15} + 1\right) + \frac{3}{5} \div \left(\frac{1}{2} - \frac{2}{5}\right)^2 - \frac{13}{2} =$
- 5)  $\left[\left(3 - \frac{1}{3} + \frac{3}{2}\right)^2 - \left(\frac{1}{2} - \frac{1}{3}\right)^2\right] \div 26 =$

### Espressioni con le frazioni:

1.  $\left(\frac{5}{8} + \frac{3}{4} + \frac{7}{6}\right) - \left[\left(\frac{9}{8} - \frac{5}{12}\right) - \left(\frac{1}{24} + \frac{1}{16} + \frac{1}{8}\right)\right] =$
2.  $\frac{5}{6} - \left\{ \frac{5}{8} + \frac{1}{4} - \left[ \left(\frac{3}{16} + \frac{1}{6} + \frac{2}{3} - \frac{7}{24}\right) + \left(\frac{5}{4} - 1 - \frac{1}{4}\right) \right] \right\} =$
3.  $\frac{3}{5} \cdot \left[ \left(\frac{3}{4} + \frac{1}{2}\right) - \left(\frac{1}{6} \cdot \frac{3}{4} + \frac{1}{8} \cdot \frac{2}{3}\right) \right] \cdot \frac{2}{5} + \frac{3}{4} =$
4.  $\left[ \left(\frac{3}{2} \cdot \frac{5}{9} + \frac{1}{3}\right) \cdot \frac{3}{14} + \frac{2}{17} \cdot \left(\frac{5}{2} - \frac{3}{4} \cdot \frac{1}{2}\right) \right] \cdot \frac{8}{3} - 1 =$
5.  $\left\{ \left[ 4 \cdot \frac{5}{4} - \frac{1}{27} \cdot \left(\frac{9}{4} + \frac{1}{2} \cdot \frac{9}{4}\right) \right] \cdot \left(\frac{21}{13} - 1\right) + 2 \right\} \cdot \left(1 + \frac{1}{5}\right) =$
6.  $\left(\frac{1}{9} + \frac{1}{4}\right) + \left(6 - \frac{1}{2}\right) \cdot \frac{2}{11} - \left(\frac{10}{9} + \frac{1}{4}\right) =$

$$7. \left(\frac{7}{2} + \frac{5}{3}\right) - \left[\left(\frac{1}{4} + 3 - \frac{1}{3} - \frac{13}{6}\right) - \left(1 - \frac{5}{9}\right)\right] - \frac{31}{36} =$$

$$8. \frac{\left(\frac{1}{16} \cdot 5 + 1 - \frac{1}{4} \div \frac{4}{3}\right) \div \left(5 - \frac{1}{2}\right)}{\left(\frac{25}{4} - \frac{1}{2} \div \frac{4}{9}\right) \div 4 + \frac{1}{4}} =$$

$$9. \frac{4 + \frac{1}{2} + \frac{9}{4} - \frac{1}{2}}{\frac{9}{2} + \frac{7}{4}} + \frac{1 + \frac{5}{6} + \frac{1}{3} + \frac{5}{4}}{\frac{11}{6} + \frac{19}{4}} =$$

$$10. \frac{\left(\frac{1}{4} \cdot \frac{12}{7} + \frac{1}{7}\right) \div \left(1 + \frac{1}{6}\right)}{\left[\left(\frac{7}{4} - \frac{3}{2}\right) \div \frac{1}{4} + \frac{1}{4}\right] \cdot \frac{12}{49}} =$$

$$11. \left[\left(\frac{1}{2}\right)^4 \div \left(\frac{1}{2}\right)^3\right]^3 \cdot 2^2 =$$

$$12. \left[\left(\frac{3}{4}\right)^3 \cdot \left(\frac{2}{15}\right)^3\right] \div \left[\left(\frac{1}{10}\right)^5 \cdot \left(\frac{1}{10}\right)^3 \div \left(\frac{1}{10}\right)^6\right] =$$

$$13. \left\{\left[\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^0\right] \div \left[\frac{2}{3} \cdot \left(\frac{2}{3}\right)^2\right]\right\}^2 \cdot \left[\left(\frac{15}{2}\right)^3 \div \left(\frac{15}{2}\right)\right] =$$