

## Espressioni svolte con i numeri relativi

### Esercizio n°1

$$-\frac{7}{6} - \left(+\frac{2}{3}\right) - \left(-\frac{3}{2}\right) - \left(\frac{1}{12}\right) + \left(+\frac{3}{4}\right) =$$

$$-\frac{7}{6} - \frac{2}{3} + \frac{3}{2} - \frac{1}{12} + \frac{3}{4} =$$

$$\frac{-14 - 8 + 18 - 1 + 9}{12} = +\frac{4}{12} = \frac{1}{3}$$

### Esercizio n°2

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

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

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

$$\frac{2}{3} + \left[\frac{12 - 25 + 5}{15}\right] + \frac{2}{5} + \frac{2}{3} - 4 =$$

$$\frac{2}{3} - \frac{8}{15} + \frac{2}{5} + \frac{2}{3} - 4 =$$

$$\frac{10 - 8 + 6 + 10 - 60}{15} = -\frac{42}{15} = -\frac{14}{5}$$

### Esercizio n°3

$$\left\{\left(1 - \frac{3}{8}\right) \div \left[\left(\frac{5}{8} + \frac{1}{4} - \frac{5}{12}\right) + \frac{5}{6} \cdot \left(-\frac{3}{10}\right)\right] + \frac{1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

$$\left\{\left(\frac{8-3}{8}\right) \div \left[\left(\frac{15+6-10}{24}\right) - \frac{1}{4}\right] + \frac{1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

$$\left\{\frac{5}{8} \div \left[\frac{11}{24} - \frac{1}{4}\right] + \frac{1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

$$\left\{\frac{5}{8} \div \left[\frac{11-6}{24}\right] + \frac{1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

$$\left\{\frac{5}{8} \div \frac{5}{24} + \frac{1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

$$\left\{\frac{5}{8} \cdot \frac{24}{5} + \frac{1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

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

$$\left\{\frac{6+1}{2}\right\} \cdot \left(-\frac{2}{9}\right) =$$

$$\frac{7}{2} \cdot \left(-\frac{2}{9}\right) = -\frac{7}{9}$$

#### Esercizio n° 4

$$\frac{3 - \left[\frac{2}{3} - \left(\frac{1}{2} - \frac{1}{3}\right) + 1\right] \times \left(1 + \frac{1}{3} + \frac{1}{2}\right)}{\left[\frac{11}{13} + \frac{1}{2} \times \left(1 - \frac{1}{3}\right) \times \frac{6}{13}\right] \times \left(\frac{3}{4} - 2 + \frac{1}{2}\right)} =$$

$$\frac{3 - \left[\frac{2}{3} - \left(\frac{3-2}{6}\right) + 1\right] \cdot \left(\frac{6+2+3}{6}\right)}{\left[\frac{11}{13} + \frac{1}{2} \cdot \left(\frac{3-1}{3}\right) \cdot \frac{6}{13}\right] \cdot \left(\frac{3-8+2}{4}\right)} =$$

$$\frac{3 - \left[\frac{2}{3} - \frac{1}{6} + 1\right] \cdot \frac{11}{6}}{\left[\frac{11}{13} + \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{6}{13}\right] \cdot \left(-\frac{3}{4}\right)} =$$

$$\frac{3 - \left[\frac{4-1+6}{6}\right] \cdot \frac{11}{6}}{\left[\frac{11}{13} + \frac{2}{13}\right] \cdot \left(-\frac{3}{4}\right)} =$$

$$\frac{3 - \frac{9}{6} \cdot \frac{11}{6}}{\frac{13}{13} \cdot \left(-\frac{3}{4}\right)} =$$

$$\frac{3 - \frac{11}{4}}{-\frac{3}{4}}$$

$$\frac{\frac{12-11}{4}}{-\frac{3}{4}} =$$

$$\frac{1}{4} \cdot \left(-\frac{4}{3}\right) = -\frac{1}{3}$$