



## Numeri relativi – Espressioni con le frazioni

## Signed Numbers

-----

1.  $-\frac{5}{2}-\frac{3}{2}+1+\frac{4}{3}-\frac{1}{3}+2=$  [0]
2.  $\left(3-\frac{1}{2}+\frac{6}{3}\right)-\left(6-\frac{1}{4}\right)=$   $\left[-\frac{7}{2}\right]$
3.  $5-\left(\frac{6}{10}-\frac{2}{5}+\frac{7}{10}\right)-\frac{1}{2}=$   $\left[-\frac{2}{5}\right]$
4.  $-\frac{2}{3}+\frac{1}{6}-\left(-\frac{1}{4}+\frac{1}{2}\right)+\frac{3}{8}=$   $\left[-\frac{3}{8}\right]$
5.  $1+\frac{5}{3}+\left(\frac{1}{2}-\frac{7}{6}+2\right)-\left(\frac{1}{6}-\frac{4}{3}\right)=$   $\left[\frac{31}{6}\right]$
6.  $-\frac{5}{7}-\left(\frac{3}{7}-\frac{1}{35}+1\right)-\left(\frac{6}{7}-2-\frac{1}{5}\right)=$   $\left[-\frac{27}{35}\right]$
7.  $\left(3\cdot\left(-\frac{2}{3}\right)-2\cdot\left(\frac{3}{4}\right)\right)\div\left(2\cdot\left(-\frac{2}{3}\right)-\frac{3}{4}\right)=$   $\left[-\frac{42}{25}\right]$
8.  $\frac{23}{5}-\frac{13}{5}+\left(\frac{2}{5}+\frac{1}{4}+\frac{17}{20}\right)-\left(\frac{9}{2}-\frac{3}{5}\right)=$   $\left[-\frac{2}{5}\right]$
9.  $\left[\left(\frac{4}{3}-2\right)\cdot\left(-\frac{3}{4}\right)\right]:\left[\left(-\frac{1}{2}-4\right):\left(-2+\frac{5}{7}\right)\right]=$   $\left[\frac{1}{7}\right]$
10.  $\frac{3}{8}-\left[\frac{6}{10}-\left(\frac{7}{10}-1-\frac{6}{8}\right)+\left(-\frac{7}{20}+\frac{1}{2}\right)-1\right]+\frac{17}{40}=$  [0]
11.  $\frac{13}{4}-\frac{29}{6}-\left(-\frac{1}{3}+\frac{1}{2}+1\right)+\frac{3}{8}-\left(\frac{5}{3}-\frac{5}{4}\right)-\left(\frac{7}{3}-\frac{5}{8}\right)=$   $\left[-\frac{9}{2}\right]$
12.  $1-\left[\frac{4}{5}+\left(-\frac{2}{21}-\frac{8}{14}\right)-\left(\frac{4}{3}-\frac{11}{5}+1\right)\right]+\frac{15}{6}-\left(3+\frac{7}{9}-\frac{5}{3}\right)-\frac{7}{18}=$  [+1]
13.  $\left[\left(\frac{13}{3}+\frac{3}{2}\right):\left(-\frac{5}{3}\right)\right]\cdot\left(\frac{6}{7}-1\right)=$   $\left[\frac{3}{2}\right]$
14.  $1+\left[\left(\frac{1}{2}-\frac{3}{4}\right)\div\left(-\frac{1}{2}\right)\right]\cdot\left(\frac{1}{6}-\frac{3}{9}\right)\cdot\frac{9}{2}-\frac{5}{8}=$  [0]



$$15. \left[ \frac{3}{2} - \left( -\frac{4}{3} + \frac{1}{7} \right) + \left( -\frac{5}{2} + \frac{7}{3} \right) - \left( -\frac{5}{6} + \frac{7}{3} \right) \right] - \frac{22}{21} = \left[ -\frac{1}{42} \right]$$

$$16. - \left[ \left( \frac{1}{3} - 2 \right) \cdot \left( \frac{5}{2} - \frac{7}{6} \right) - \left( 1 - \frac{4}{3} \right) \cdot \left( -1 - \frac{1}{3} \right) \right] : \left( -\frac{16}{3} \right) = \left[ -\frac{1}{2} \right]$$

$$17. \left\{ \left[ -\frac{3}{2} - 2 \div \left( -\frac{3}{4} + \frac{1}{6} \right) \right] \cdot \left( -\frac{2}{3} + 2 \right) - 1 \right\} \div \left( -\frac{1}{6} \right) + 3 = \left[ -\frac{45}{7} \right]$$

$$18. \left\{ \left[ -\frac{3}{2} - 2 \div \left( -\frac{3}{4} + \frac{1}{6} \right) \right] \cdot \left( -\frac{2}{3} + 2 \right) - 1 \right\} \cdot \left( -\frac{1}{6} \right) + 3 = \left[ \frac{115}{42} \right]$$

$$19. - \left( 1 - \frac{1}{9} \right) - \left[ \frac{4}{7} - \frac{3}{14} - \left( -\frac{1}{2} \right) \right] + \frac{8}{9} - \left[ \frac{9}{5} + \left( -\frac{1}{2} \right) - \left( +\frac{1}{3} \right) + \left( -\frac{5}{6} \right) \right] + \frac{6}{7} = \left[ -\frac{2}{15} \right]$$

$$20. \frac{11}{90} - \left[ -\frac{5}{2} + 0,2 - (-0,\bar{3} + 0,\bar{2}) \right] + \{ - [0,3 - 0,\bar{8} - (-1 + 0,1)] - 2 \} = [0]$$

$$21. \left\{ -1 + \left[ \left( +\frac{1}{12} - 0,\bar{3} - 0,25 \right) - \left( -0,75 + \frac{1}{2} \right) - \left( 0,1\bar{6} - \frac{5}{6} - \frac{2}{3} \right) \right] + (+1) \right\} + \left( -1 + \frac{1}{2} - \frac{3}{2} \right) = \left[ -\frac{11}{12} \right]$$

$$22. 1,25 \div \left\{ 0,6 \div \left[ - \left( 0,3 + \frac{1}{2} \right) + \frac{1}{2} \right] + 1,\bar{6} \right\} - 0,5 + \frac{1}{4} = [-4]$$

$$23. \frac{5}{4} - \left[ \frac{4}{3} - \left( \frac{3}{2} - \frac{5}{6} + \frac{1}{2} \right) + \frac{5}{4} \right] - \left( 2 - \frac{7}{6} \right) = [-1]$$

$$24. \left[ \left( \frac{2}{3} - 4 \right) \cdot \left( \frac{3}{5} - \frac{1}{2} \right) - \left( \frac{4}{3} + \frac{3}{4} \right) \cdot \left( -\frac{1}{5} \right) \cdot \left( 1 + \frac{3}{5} - \frac{5}{2} \right) \right] - \left( \frac{1}{3} - \frac{1}{8} \right) \div \left( -\frac{1}{2} \right) = \left[ -\frac{7}{24} \right]$$

$$25. -\frac{19}{3} - \left[ \left( 1 - \frac{2}{3} \right) \div \left( 1 - \frac{1}{2} \right) - \frac{3}{7} + \left( -\frac{9}{7} + \frac{3}{7} \right) \cdot \left( -\frac{1}{2} \right) - \frac{1}{3} \right] - \left( -\frac{1}{6} \right) \div \left( -\frac{1}{2} \right) = \left[ -\frac{19}{3} \right]$$

$$26. -1 - \left\{ -\frac{3}{4} - \left[ - \left( \frac{1}{7} - \frac{1}{3} - \frac{10}{21} \right) - \left( \frac{3}{4} - \frac{1}{3} - \frac{3}{2} \right) \right] \right\} \cdot \left( 1 - \frac{1}{2} \right) - \left( \frac{5}{4} - \frac{1}{2} \right) = \left[ -\frac{1}{2} \right]$$

$$27. \frac{7}{20} - \left\{ -\frac{7}{5} - \left[ - \left( \frac{1}{2} + \frac{1}{2} \right) - \left( -\frac{3}{2} - \frac{1}{8} \right) + \left( -\frac{8}{5} + \frac{2}{3} \right) \right] - \frac{5}{24} \right\} - \frac{3}{5} = \left[ \frac{9}{5} \right]$$

$$28. \left[ \left( \frac{3}{4} - \frac{1}{20} - \frac{7}{5} \right) - \left( 3 - \frac{5}{2} - \frac{8}{5} \right) \right] + \left( -\frac{1}{10} \right) - \frac{1}{10} \cdot \left( -\frac{5}{2} \right) = \left[ \frac{9}{20} \right]$$



$$29. \quad \frac{1}{2} - \left(-\frac{1}{3}\right) + \left\{ \left[ \left(-\frac{4}{3} - 4\right) + \left(+\frac{16}{3}\right) + \frac{1}{5} \right] - \left(-\frac{1}{3} - 1\right) \right\} + \left(\frac{1}{9} - \frac{7}{15} + \frac{1}{45}\right) - \frac{1}{2} = \quad \left[\frac{23}{15}\right]$$

$$30. \quad -\frac{5}{4} - \left[ -\frac{4}{3} - \left(\frac{3}{2} - \frac{5}{6} + \frac{1}{2}\right) + \frac{5}{4} \right] - \left(2 - \frac{7}{6}\right) \cdot \left(-\frac{6}{5}\right) = \quad [+1]$$

$$31. \quad -\left(-\frac{7}{6} - \frac{3}{2} + \frac{5}{4}\right) \cdot \left(\frac{1}{17} - 1\right) - \left(\frac{1}{3} - 1\right) + \left(\frac{1}{2} - 1\right) = \quad \left[-\frac{7}{6}\right]$$

$$32. \quad \frac{2 \cdot (9 - 5)}{3} - \frac{2 \cdot 9 + 3}{5} - 3 - \frac{2 \cdot (-9 - 25)}{15} = \quad [+0]$$

$$33. \quad \left\{ \left[ -5 + \frac{3}{8} - \frac{1}{8} + \frac{9}{2} \right] \div \left[ -\frac{4}{25} + \frac{3}{20} - \frac{1}{25} \right] \right\} - \frac{11}{2} = \quad -\frac{1}{2}$$