

Espressioni con frazioni, addizioni e sottrazioni. Completi di soluzione guidata.
Evaluating Expressions Involving Fractions (Addition and Subtraction) – With solutions

1. $\frac{3}{2} + \frac{7}{2} + \frac{9}{2} - \left(\frac{11}{2} - \frac{3}{2}\right)$ $\left[\frac{11}{2}\right]$
[soluzione](#)
2. $5 + \frac{9}{2} - \left(5 + \frac{1}{2} - \frac{3}{2}\right)$ $\left[\frac{11}{2}\right]$
[soluzione](#)
3. $\frac{1}{4} + \frac{5}{4} - \left(\frac{15}{4} + \frac{7}{4} - \frac{21}{4}\right)$ $\left[\frac{1}{4}\right]$
[soluzione](#)
4. $\left(\frac{7}{4} + \frac{1}{4} + \frac{5}{4}\right) + \left(\frac{5}{4} - \frac{3}{4}\right) + \left(\frac{3}{4} + \frac{9}{4} - \frac{11}{4}\right)$ $[4]$
[soluzione](#)
5. $\left[\left(\frac{15}{8} + \frac{2}{8}\right) - \left(\frac{1}{8} + \frac{5}{8}\right) + \left(\frac{3}{8} + \frac{7}{8} + \frac{9}{8}\right)\right] - \left(\frac{5}{8} + \frac{7}{8}\right)$ $\left[\frac{9}{4}\right]$
[soluzione](#)
6. $\frac{24}{5} + \frac{3}{5} - \left(\frac{8}{5} + \frac{19}{5}\right) + \frac{3}{5} + \left(\frac{6}{5} + \frac{4}{5} - \frac{2}{5}\right)$ $\left[\frac{11}{5}\right]$
[soluzione](#)
7. $\frac{1}{6} + \left(\frac{3}{4} + \frac{1}{2} - \frac{1}{4}\right) - \frac{1}{3} - \left(\frac{1}{2} - \frac{1}{4}\right)$ $\left[\frac{7}{12}\right]$
[soluzione](#)
8. $\left(\frac{1}{2} + \frac{3}{2} + \frac{5}{2} - \frac{7}{2}\right) + \left(\frac{7}{2} + \frac{15}{2} - \frac{13}{2}\right)$ $\left[\frac{11}{2}\right]$
[soluzione](#)
9. $\frac{1}{24} + \left(\frac{5}{6} - \frac{1}{24} - \frac{17}{24}\right) + \left(\frac{7}{24} - \frac{5}{24}\right) + \left(\frac{3}{8} - \frac{1}{3}\right)$ $\left[\frac{1}{4}\right]$
[soluzione](#)
10. $\left[\left(\frac{5}{6} - \frac{1}{3}\right) + \left(\frac{7}{18} + \frac{5}{18}\right) - \frac{11}{18}\right] + \left(\frac{7}{18} - \frac{5}{18} + \frac{3}{18}\right)$ $\left[\frac{5}{6}\right]$
[soluzione](#)
11. $\left(\frac{1}{2} + \frac{5}{3} - \frac{5}{6}\right) - \left(\frac{11}{6} - \frac{7}{6}\right) - \left(\frac{1}{3} - \frac{1}{6}\right)$ $\left[\frac{1}{2}\right]$
[soluzione](#)
12. $\left(\frac{3}{4} + \frac{7}{4} - \frac{3}{8}\right) - \frac{11}{8} + \frac{5}{8} + \left(\frac{1}{4} + \frac{3}{4} - \frac{1}{8}\right)$ $\left[\frac{9}{4}\right]$
[soluzione](#)
13. $\left(\frac{1}{5} + \frac{1}{5}\right) + \left(1 + \frac{5}{2}\right) - \left(\frac{1}{10} + \frac{2}{10}\right)$ $\left[\frac{18}{5}\right]$
[soluzione](#)

14. $\frac{3}{5} + \frac{4}{5} - \left(1 - \frac{1}{5}\right)$ $\left[\frac{3}{5}\right]$
[soluzione](#)
15. $\left(\frac{1}{2} + \frac{5}{3} - \frac{5}{6}\right) + \left(\frac{7}{6} + \frac{11}{6}\right) - \left(\frac{2}{6} - \frac{1}{6}\right)$ $\left[\frac{25}{6}\right]$
[soluzione](#)
16. $2 - \frac{1}{3} - \left\{\frac{7}{3} - \left[\frac{4}{3} - \left(\frac{1}{2} + 2 - \frac{3}{2}\right)\right] - 1 + \frac{1}{3}\right\}$ $\left[\frac{1}{3}\right]$
[soluzione](#)
17. $\frac{15}{7} + \left(\frac{23}{7} + \frac{2}{7} + \frac{4}{7} - \frac{25}{7}\right) + \frac{2}{7} - \left(\frac{8}{7} - \frac{6}{7} + \frac{1}{7}\right)$ $\left[\frac{18}{7}\right]$
[soluzione](#)
18. $\left[\left(\frac{1}{2} + \frac{1}{3} - \frac{4}{5}\right) + \left(\frac{11}{12} - \frac{3}{4} + \frac{1}{3}\right)\right] + \frac{7}{15}$ [1]
[soluzione](#)
19. $\left(\frac{1}{2} + \frac{1}{3} + \frac{5}{6}\right) + \left(\frac{7}{6} - \frac{10}{12}\right) + \left(\frac{7}{6} - \frac{13}{12}\right) + \frac{7}{12} - \frac{5}{12}$ $\left[\frac{9}{4}\right]$
[soluzione](#)
20. $2 - \left[\left(\frac{11}{10} + \frac{7}{15}\right) - \left(\frac{7}{5} - \frac{4}{3}\right)\right]$ $\left[\frac{1}{2}\right]$
[soluzione](#)

Soluzioni

$$\begin{aligned} & \frac{3}{2} + \frac{7}{2} + \frac{9}{2} - \left(\frac{11}{2} - \frac{3}{2} \right) \\ &= \frac{3+7+9}{2} - \left(\frac{11-3}{2} \right) = \\ &= \frac{19}{2} - \frac{8}{2} = \frac{11}{2} \end{aligned}$$

$$\begin{aligned} & 5 + \frac{9}{2} - \left(5 + \frac{1}{2} - \frac{3}{2} \right) = \\ &= \frac{10+9}{2} - \left(\frac{10+2-3}{2} \right) = \\ &= \frac{19}{2} - \frac{8}{2} = \\ &= \frac{19-8}{2} = \frac{11}{2} \end{aligned}$$

$$\begin{aligned} & \frac{1}{4} + \frac{5}{4} - \left(\frac{15}{4} + \frac{7}{4} - \frac{21}{4} \right) = \\ &= \frac{1}{4} + \frac{5}{4} - \left(\frac{15+7-21}{4} \right) = \\ &= \frac{1}{4} + \frac{5}{4} - \frac{1}{4} = \\ &= \frac{1+5-1}{4} = \frac{5}{4} \end{aligned}$$

$$\begin{aligned}
 & \left(\frac{7}{4} + \frac{1}{4} + \frac{5}{4}\right) + \left(\frac{5}{4} - \frac{3}{4}\right) + \left(\frac{3}{4} + \frac{9}{4} - \frac{11}{4}\right) = \\
 & = \left(\frac{7+1+5}{4}\right) + \left(\frac{5-3}{4}\right) + \left(\frac{3+9-11}{4}\right) = \\
 & = \frac{13}{4} + \frac{2}{4} + \frac{1}{4} = \\
 & = \frac{13+2+1}{4} = \\
 & = \frac{16}{4} = 4
 \end{aligned}$$

$$\begin{aligned}
 & \left[\left(\frac{15}{8} + \frac{2}{8}\right) - \left(\frac{1}{8} + \frac{5}{8}\right) + \left(\frac{3}{8} + \frac{7}{8} + \frac{9}{8}\right)\right] - \left(\frac{5}{8} + \frac{7}{8}\right) = \\
 & = \left[\left(\frac{15+2}{8}\right) - \left(\frac{1+5}{8}\right) + \left(\frac{3+7+9}{8}\right)\right] - \left(\frac{5+7}{8}\right) = \\
 & = \left[\frac{17}{8} - \frac{6}{8} + \frac{19}{8}\right] - \frac{12}{8} = \\
 & = \left[\frac{17-6+19}{8}\right] - \frac{12}{8} = \\
 & = \frac{30}{8} - \frac{12}{8} = \\
 & = \frac{18}{8} = \frac{9}{4}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{24}{5} + \frac{3}{5} - \left(\frac{8}{5} + \frac{19}{5} \right) + \frac{3}{5} + \left(\frac{6}{5} + \frac{4}{5} - \frac{2}{5} \right) = \\
 & = \frac{24+3}{5} - \left(\frac{8+19}{5} \right) + \frac{3}{5} + \left(\frac{6+4-2}{5} \right) = \\
 & = \frac{27}{5} - \frac{27}{5} + \frac{3}{5} + \frac{8}{5} = \\
 & = \frac{3}{5} + \frac{8}{5} = \\
 & = \frac{3+8}{5} = \\
 & = \frac{11}{5}
 \end{aligned}$$

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

$$\begin{aligned} & \left(\frac{1}{2} + \frac{3}{2} + \frac{5}{2} - \frac{7}{2}\right) + \left(\frac{7}{2} + \frac{15}{2} - \frac{13}{2}\right) = \\ & = \frac{1+3+5-7}{2} + \frac{7+15-13}{2} = \\ & = \frac{2}{2} + \frac{9}{2} = \\ & = \frac{2+9}{2} = \\ & = \frac{11}{2} \end{aligned}$$

$$\begin{aligned} & \frac{1}{24} + \left(\frac{5}{6} - \frac{1}{24} - \frac{17}{24}\right) + \left(\frac{7}{24} - \frac{5}{24}\right) + \left(\frac{3}{8} - \frac{1}{3}\right) = \\ & = \frac{1}{24} + \left(\frac{20-1-17}{24}\right) + \left(\frac{7-5}{24}\right) + \left(\frac{9-8}{24}\right) = \\ & = \frac{1}{24} + \frac{2}{24} + \frac{2}{24} + \frac{1}{24} = \\ & = \frac{6}{24} = \frac{1}{4} \end{aligned}$$

$$\begin{aligned}
 & \left[\left(\frac{5}{6} - \frac{1}{3} \right) + \left(\frac{7}{18} + \frac{5}{18} \right) - \frac{11}{18} \right] + \left(\frac{7}{18} - \frac{5}{18} + \frac{3}{18} \right) = \\
 & = \left[\left(\frac{5-2}{6} \right) + \left(\frac{7+5}{18} \right) - \frac{11}{18} \right] + \left(\frac{7-5+3}{18} \right) = \\
 & = \left[\frac{3}{6} + \frac{12}{18} - \frac{11}{18} \right] + \frac{5}{18} = \\
 & = \left[\frac{9+12-11}{18} \right] + \frac{5}{18} = \\
 & = \frac{10}{18} + \frac{5}{18} = \\
 & = \frac{10+5}{18} = \frac{15}{18} = \frac{5}{6}
 \end{aligned}$$

$$\begin{aligned}
 & \left(\frac{1}{2} + \frac{5}{3} - \frac{5}{6} \right) - \left(\frac{11}{6} - \frac{7}{6} \right) - \left(\frac{1}{3} - \frac{1}{6} \right) = \\
 & = \left(\frac{3+10-5}{6} \right) - \left(\frac{11-7}{6} \right) - \left(\frac{2-1}{6} \right) = \\
 & = \frac{8}{6} - \frac{4}{6} - \frac{1}{6} = \\
 & = \frac{8-4-1}{6} = \frac{3}{6} = \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 & \left(\frac{3}{4} + \frac{7}{4} - \frac{3}{8} \right) - \frac{11}{8} + \frac{5}{8} + \left(\frac{1}{4} + \frac{3}{4} - \frac{1}{8} \right) = \\
 & = \left(\frac{6+14-3}{8} \right) - \frac{11}{8} + \frac{5}{8} + \left(\frac{2+6-1}{8} \right) = \\
 & = \frac{17}{8} - \frac{11}{8} + \frac{5}{8} + \frac{7}{8} = \\
 & = \frac{17-11+5+7}{8} = \frac{18}{8} = \frac{9}{4}
 \end{aligned}$$

$$\begin{aligned}
 & \left(\frac{1}{5} + \frac{1}{5} \right) + \left(1 + \frac{5}{2} \right) - \left(\frac{1}{10} + \frac{2}{10} \right) = \\
 & = \frac{2}{5} + \frac{2+5}{2} - \frac{3}{10} = \\
 & = \frac{2}{5} + \frac{7}{2} - \frac{3}{10} = \\
 & = \frac{4+35-3}{10} = \frac{36}{10} = \frac{18}{5}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{3}{5} + \frac{4}{5} - \left(1 - \frac{1}{5} \right) = \\
 & = \frac{3+4}{5} - \frac{5-1}{5} = \\
 & = \frac{7}{5} - \frac{4}{5} = \\
 & = \frac{7-4}{5} = \frac{3}{5}
 \end{aligned}$$

$$\begin{aligned}
 & \left(\frac{1}{2} + \frac{5}{3} - \frac{5}{6}\right) + \left(\frac{7}{6} + \frac{11}{6}\right) - \left(\frac{2}{6} - \frac{1}{6}\right) = \\
 & = \frac{3+10-5}{6} + \frac{7+11}{6} - \frac{2-1}{6} = \\
 & = \frac{8}{6} + \frac{18}{6} - \frac{1}{6} = \\
 & = \frac{8+18-1}{6} = \frac{25}{6}
 \end{aligned}$$

$$\begin{aligned}
 & 2 - \frac{1}{3} - \left\{ \frac{7}{3} - \left[\frac{4}{3} - \left(\frac{1}{2} + 2 - \frac{3}{2} \right) \right] - 1 + \frac{1}{3} \right\} = \\
 & = 2 - \frac{1}{3} - \left\{ \frac{7}{3} - \left[\frac{4}{3} - \left(\frac{1+4-3}{2} \right) \right] - 1 + \frac{1}{3} \right\} = \\
 & = 2 - \frac{1}{3} - \left\{ \frac{7}{3} - \left[\frac{4}{3} - \frac{2^1}{2_1} \right] - 1 + \frac{1}{3} \right\} = \\
 & = 2 - \frac{1}{3} - \left\{ \frac{7}{3} - \left[\frac{4-3}{3} \right] - 1 + \frac{1}{3} \right\} = \\
 & = 2 - \frac{1}{3} - \left\{ \frac{7}{3} - \frac{1}{3} - 1 + \frac{1}{3} \right\} = \\
 & = 2 - \frac{1}{3} - \left\{ \frac{7-3}{3} \right\} = \\
 & = 2 - \frac{1}{3} - \frac{4}{3} = \\
 & = \frac{6-1-4}{3} = \frac{1}{3}
 \end{aligned}$$


$$\begin{aligned}
 & \frac{15}{7} + \left(\frac{23}{7} + \frac{2}{7} + \frac{4}{7} - \frac{25}{7} \right) + \frac{2}{7} - \left(\frac{8}{7} - \frac{6}{7} + \frac{1}{7} \right) = \\
 & = \frac{15}{7} + \frac{23+2+4-25}{7} + \frac{2}{7} - \frac{8-6+1}{7} = \\
 & = \frac{15}{7} + \frac{4}{7} + \frac{2}{7} - \frac{3}{7} = \\
 & = \frac{15+4+2-3}{7} = \frac{18}{7}
 \end{aligned}$$


$$\begin{aligned}
 & \left[\left(\frac{1}{2} + \frac{1}{3} - \frac{4}{5} \right) + \left(\frac{11}{12} - \frac{3}{4} + \frac{1}{3} \right) \right] + \frac{7}{15} = \\
 & = \left[\frac{15+10-24}{30} + \frac{11-9+4}{12} \right] + \frac{7}{15} = \\
 & = \left[\frac{1}{30} + \frac{6^1}{12_2} \right] + \frac{7}{15} = \\
 & = \frac{1+15}{30} + \frac{7}{15} = \\
 & = \frac{16^8}{30_{15}} + \frac{7}{15} = \frac{8+7}{15} = \frac{15}{15} = 1
 \end{aligned}$$


$$\begin{aligned}
 & \left(\frac{1}{2} + \frac{1}{3} + \frac{5}{6} \right) + \left(\frac{7}{6} - \frac{10}{12} \right) + \left(\frac{7}{6} - \frac{13}{12} \right) + \frac{7}{12} - \frac{5}{12} = \\
 & = \frac{3+2+5}{6} + \left(\frac{7}{6} - \frac{5}{6} \right) + \left(\frac{14-13}{12} \right) + \frac{7}{12} - \frac{5}{12} = \\
 & = \frac{10}{6} + \frac{7-5}{6} + \frac{1}{12} + \frac{7}{12} - \frac{5}{12} = \\
 & = \frac{10}{6} + \frac{2}{6} + \frac{1}{12} + \frac{7}{12} - \frac{5}{12} = \\
 & = \frac{12}{6} + \frac{1+7-5}{12} = \\
 & = \frac{2}{1} + \frac{3}{12} = \frac{2}{1} + \frac{1}{4} = \frac{8+1}{4} = \frac{9}{4}
 \end{aligned}$$


$$\begin{aligned}
 & 2 - \left[\left(\frac{11}{10} + \frac{7}{15} \right) - \left(\frac{7}{5} - \frac{4}{3} \right) \right] = \\
 & 2 - \left[\left(\frac{11}{10} + \frac{7}{15} \right) - \left(\frac{7}{5} - \frac{4}{3} \right) \right] = \\
 & = 2 - \left[\left(\frac{33+14}{30} \right) - \left(\frac{21-20}{15} \right) \right] = \\
 & = 2 - \left[\frac{47}{30} - \frac{1}{15} \right] = \\
 & = 2 - \left[\frac{47-2}{30} \right] = \\
 & = 2 - \frac{45}{30} = \\
 & = 2 - \frac{9}{6} = \\
 & = 2 - \frac{3}{2} = \\
 & = \frac{4-3}{2} = \frac{1}{2}
 \end{aligned}$$


Keywords

 *Matematica, Aritmetica, Frazioni, Espressioni Q, addizione, sottrazione, moltiplicazione, divisione, esercizi con soluzioni*

 *Math, Arithmetic, Fraction expressions, Fraction, Expression, Addition, Subtraction, Multiplication, Division, Fraction expressions solved*

 *Matemática, Aritmética, Fracción, Expresiones, Resta, Sustracción, Suma, Adición, Multiplicación, División*

 *Mathématique, Arithmétique, Fraction, Problèmes avec fractions, Addition, Soustraction, Multiplication, Division*

 *Mathematik, Arithmetik, Bruchrechnung, Bruch, Subtraktion, Addition, Multiplikation, Division*

Arabic: كسْر

Chinese (Simplified): 分数

Chinese (Traditional): 分數

Czech: zlomek

Danish: brøkdæl

Dutch: deel, breuk

Estonian: murd(arv)

Finnish: murtoluku

French: fraction

Greek: κλάσμα

Hungarian: hányad, tört(rész)

Icelandic: brot

Indonesian: pecahan

Japanese: 分数

Korean: 분수

Lithuanian: trupmena

Norwegian: brøk(del)

Polish: ułamek

Portuguese (Brazil): fração

Portuguese (Portugal): fracção

Romanian: fracție

Russian: дробь

Slovak: zlomok

Slovenian: ulomek

Swedish: del

Turkish: kesir