

Rationale Zahlen – Lösungen 2 von 3

Addieren und Subtrahieren

Schulübung:

Hier finden Sie die Lösungswege zu den Schulübungs-Beispielen.

$$\left(+\frac{7}{8}\right) + \left(-\frac{3}{4}\right) = \frac{7}{8} - \frac{3}{4} = \frac{7}{8} - \frac{6}{8} = +\frac{1}{8}$$

$$\left(-\frac{3}{10}\right) + \left(+\frac{4}{5}\right) = -\frac{3}{10} + \frac{4}{5} = -\frac{3}{10} + \frac{8}{10} = +\frac{5}{10} = +\frac{1}{2}$$

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

$$\left(-\frac{2}{12}\right) + (-0,75) = -\frac{2}{12} - 0,75 = -\frac{2}{12} - \frac{3}{4} = -\frac{2}{12} - \frac{9}{12} = -\frac{11}{12}$$

$$\left(-\frac{5}{6}\right) + \left(-\frac{2}{3}\right) + \left(+\frac{1}{2}\right) = -\frac{5}{6} - \frac{2}{3} + \frac{1}{2} = -\frac{5}{6} - \frac{4}{6} + \frac{3}{6} = -\frac{6}{6} = -1$$

$$\left[\left(-\frac{3}{5}\right) + \left(+1\frac{2}{15}\right)\right] + \left(-1\frac{1}{3}\right) = \left[-\frac{3}{5} + 1\frac{2}{15}\right] - 1\frac{1}{3} = \left[-\frac{3}{5} + 1\frac{2}{15}\right] - 1\frac{1}{3} = \left[-\frac{9}{15} + \frac{17}{15}\right] - \frac{4}{3} = +\frac{8}{15} - \frac{20}{15} = -\frac{12}{15} = -\frac{4}{5}$$

$$\left[\left(-\frac{7}{12}\right) - \left(+1\frac{1}{4}\right)\right] - \left(-2\frac{1}{3}\right) = \left[-\frac{7}{12} - 1\frac{1}{4}\right] + 2\frac{1}{3} = \left[-\frac{7}{12} - \frac{5}{4}\right] + \frac{7}{3} = \left[-\frac{7}{12} - \frac{15}{12}\right] + \frac{28}{12} = -\frac{22}{12} + \frac{28}{12} = +\frac{6}{12} = +\frac{1}{2}$$

$$4\frac{1}{2} - (-1,4) = 4\frac{1}{2} + 1,4 = 4\frac{1}{2} + 1\frac{4}{10} = 4\frac{5}{10} + 1\frac{4}{10} = +5\frac{9}{10}$$

$$(+1,3) - \left(+2\frac{1}{5}\right) = 1,3 - 2\frac{1}{5} = 1\frac{3}{10} - 2\frac{1}{5} = 1\frac{3}{10} - 2\frac{2}{10} = \frac{13}{10} - \frac{22}{10} = -\frac{9}{10}$$

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