

Rationale Zahlen – Lösungen 3 von 3

Addieren und Subtrahieren

Hausübung:

Hier finden Sie die Lösungswege zu den Hausübungs-Beispielen.

$$\left(+\frac{2}{3}\right) + \left(-\frac{1}{4}\right) = +\frac{2}{3} - \frac{1}{4} = +\frac{8}{12} - \frac{3}{12} = +\frac{5}{12}$$

$$\left(-\frac{9}{10}\right) + \left(+\frac{3}{5}\right) = -\frac{9}{10} + \frac{3}{5} = -\frac{9}{10} + \frac{6}{10} = -\frac{3}{10}$$

$$\left(-\frac{3}{4}\right) - \left(-\frac{11}{12}\right) = -\frac{3}{4} + \frac{11}{12} = -\frac{9}{12} + \frac{11}{12} = +\frac{2}{12} = +\frac{1}{6}$$

$$\left(-\frac{1}{6}\right) - (+0,5) = -\frac{1}{6} - 0,5 = -\frac{1}{6} - \frac{5}{10} = -\frac{5}{30} - \frac{15}{30} = -\frac{20}{30} = -\frac{2}{3}$$

$$\left(-\frac{3}{5}\right) + \left(-\frac{7}{10}\right) - \left(-\frac{2}{5}\right) = -\frac{3}{5} - \frac{7}{10} + \frac{2}{5} = -\frac{6}{10} - \frac{7}{10} + \frac{4}{10} = -\frac{9}{10}$$

$$\left(+1\frac{3}{5}\right) + \left[\left(-\frac{7}{10}\right) + \left(-\frac{2}{5}\right)\right] = +\frac{8}{5} + \left[-\frac{7}{10} - \frac{4}{10}\right] = +\frac{8}{5} + \left[-\frac{11}{10}\right] = +\frac{8}{5} - \frac{11}{10} = +\frac{16}{10} - \frac{11}{10} = +\frac{5}{10} = +\frac{1}{2}$$

$$\left(-\frac{7}{12}\right) - \left[\left(+1\frac{1}{4}\right) - \left(-2\frac{1}{3}\right)\right] = -\frac{7}{12} - \left[+\frac{5}{4} + \frac{7}{3}\right] = -\frac{7}{12} - \left[+\frac{15}{12} + \frac{28}{12}\right] = -\frac{7}{12} - \frac{43}{12} = -\frac{50}{12} = -\frac{25}{6} = -4\frac{1}{6}$$

$$\left(-3\frac{1}{4}\right) - (+0,8) = -3\frac{1}{4} - 0,8 = -3\frac{1}{4} - \frac{8}{10} = -3\frac{5}{20} - \frac{16}{20} = -3\frac{21}{20} = -4\frac{1}{20}$$

$$\left(+\frac{7}{3}\right) + (-1,3) = +\frac{7}{3} - 1,3 = +\frac{7}{3} - 1\frac{3}{10} = +\frac{7}{3} - \frac{13}{10} = +\frac{7}{3} - \frac{13}{10} = +\frac{70}{30} - \frac{39}{30} = +\frac{31}{30} = +1\frac{1}{30}$$

$$\left|+\frac{1}{3}\right| - \left|-\frac{4}{5}\right| = \left(+\frac{1}{3}\right) - \left(+\frac{4}{5}\right) = +\frac{1}{3} - \frac{4}{5} = +\frac{5}{15} - \frac{12}{15} = -\frac{7}{15}$$