

3 I numeri razionali

Espressioni con addizioni, sottrazioni, moltiplicazioni

Calcolare le seguenti espressioni. Attenzione! Gli esercizi con asterisco hanno solo parentesi tonde.

$$87 \quad \left(-\frac{1}{2} + \frac{1}{4}\right) \cdot \left(1 - \frac{5}{2}\right) + \left(-\frac{4}{3} + \frac{5}{8}\right) \cdot \left(-\frac{12}{17}\right) - \frac{7}{8} \quad 0$$

$$88 \quad \left(1 - \frac{2}{3} - \frac{7}{4}\right) \cdot \left(1 - \frac{13}{5}\right) - \left(\frac{1}{8} - \frac{1}{2}\right) \cdot \left(1 + \frac{1}{3} - \frac{16}{15}\right) - \frac{11}{30} \quad 2$$

$$89 \quad \left(-1 + \frac{1}{2}\right) \cdot \left(2 - \frac{3}{2}\right) - \left(-2 + \frac{3}{4}\right) \cdot \left(1 - \frac{1}{8}\right) + \left(-1 - \frac{1}{2}\right) \cdot \left(2 - \frac{3}{2}\right) + \frac{5}{32} \quad \frac{1}{4}$$

$$90 \quad \left(-1 - \frac{3}{4}\right) - \left(3 - \frac{1}{7}\right) \cdot \left(1 - \frac{1}{8}\right) + \left(\frac{3}{4} - 1\right) \cdot \left(7 - \frac{7}{9}\right) + \frac{5}{36} + \frac{2}{3} \quad -5$$

$$91 \quad \left(-\frac{2}{3}\right) \cdot \left(3 - \frac{2}{7}\right) \cdot \left[\frac{29}{8} - \left(3 - \frac{1}{4}\right)\right] \cdot \left(-\frac{12}{19}\right) - \left[\left(1 - \frac{1}{5}\right) - \left(-4 + \frac{3}{2}\right) - \left(3 + \frac{3}{10}\right)\right] \cdot \left(-1 - \frac{3}{4} - \frac{5}{8}\right) \quad 1$$

$$92 \quad \left(-1 - \frac{1}{2}\right) \cdot \left(-\frac{2}{3} + 2 - \frac{1}{2}\right) - \left(\frac{1}{2} - \frac{1}{3} + \frac{1}{4}\right) \cdot \left(1 + \frac{1}{3} - \frac{5}{6} + \frac{1}{2}\right) \quad -\frac{5}{3}$$

$$93 \quad \left(-\frac{1}{2} + 1 + \frac{1}{16} - \frac{5}{4}\right) \cdot \left(-1 - \frac{5}{11}\right) - \left(-\frac{8}{15}\right) \cdot \left(-1 + \frac{1}{8} + \frac{2}{3}\right) \cdot \left(-\frac{1}{2} - \frac{5}{8}\right) - \frac{9}{8} \quad 0$$

$$94 \quad \left\{\frac{3}{4} - \frac{1}{2} \cdot \left[-\left(-\frac{1}{4} + \frac{1}{8}\right) \cdot \left(-\frac{8}{5}\right) - \frac{5}{4} - \frac{1}{4} \cdot \left(-\frac{4}{25}\right)\right]\right\} \cdot \left(-\frac{200}{3}\right) \quad -97$$

$$95 \quad \left(\frac{1}{4} - \frac{1}{2} - \frac{1}{6}\right) \cdot \left(-3 - \frac{4}{3} + \frac{2}{9} + 2 - \frac{3}{4} - \frac{5}{6}\right) \cdot \left(-\frac{3}{8} + \frac{1}{4}\right) \cdot \left(-\frac{36}{5}\right) \quad \frac{133}{96}$$

$$96 \quad \left(-\frac{3}{8}\right) \cdot \left(-\frac{19}{6} - \frac{1}{3}\right) \cdot \left(-\frac{1}{3} + 1 - \frac{2}{7}\right) - \left(-\frac{5}{2}\right) \cdot \left(\frac{1}{7} - \frac{5}{21}\right) \cdot \left(\frac{3}{5} + \frac{1}{10}\right) \cdot \left(1 - \frac{1}{6}\right) + \frac{5}{36} \quad \frac{1}{2}$$

$$97 \quad \left[\frac{1}{2} + \left(\frac{1}{3} - \frac{5}{12} + \frac{3}{4}\right) \cdot \left(-\frac{5}{9} + \frac{5}{12}\right)\right] \cdot \left(-\frac{1}{2} - 1 - \frac{3}{22}\right) - \left(-\frac{1}{6} + \frac{1}{4}\right) \cdot \left(-\frac{1}{4} - \frac{1}{3}\right) + \frac{17}{12} \cdot \left(\frac{1}{3} - \frac{1}{4}\right) \quad -\frac{1}{2}$$

$$98 \quad \left\{\left[\frac{1}{2} + \left(\frac{1}{3} - \frac{5}{12} + \frac{3}{4}\right) \cdot \left(-\frac{5}{9} + \frac{5}{12}\right)\right] \cdot \left(-\frac{1}{2} - 1 - \frac{3}{22}\right) - \left(-\frac{1}{6} + \frac{1}{4}\right) \cdot \left(+\frac{1}{4} - \frac{1}{3}\right)\right\} \cdot \left(-\frac{12}{19}\right) \quad \frac{5}{12}$$

$$* 99 \quad \left(\left(-1 - \frac{1}{13}\right) \cdot \left(\frac{7}{10} - \frac{1}{7}\right) + \left(\frac{3}{8} - \frac{7}{6} + \frac{1}{4}\right) \cdot \left(-\frac{2}{13}\right)\right) \cdot \left(-\frac{15}{31}\right) + \\ - \left(\left(-1 - \frac{1}{2}\right) + \left(\frac{5}{6} + \frac{1}{3}\right) - \left(\frac{3}{4} - 1 - \frac{2}{3} - \left(\frac{1}{2} + \frac{1}{3}\right)\right)\right) \cdot (-8) - \frac{1}{8} + \frac{13}{24} \quad 12$$

$$* 100 \quad \left(3 - \left(-1 - \frac{1}{4}\right) \cdot \left(\frac{7}{5} - \frac{1}{10}\right) + \frac{2}{3} \cdot \left(\frac{1}{4} - \frac{1}{6}\right)\right) \cdot \left(-\frac{3}{4}\right) + \frac{1}{24} - \frac{17}{32} - \left(-1 + \frac{1}{2}\right) \cdot \left(\frac{1}{6} - \frac{1}{3} + 1\right) \cdot \left(-\frac{12}{5}\right) \quad -5$$