

ŠTEVILSKI IZRAZI

Katere računske operacije imajo prednost?

V izrazu brez oklepajev imata operaciji množenje in deljenje prednost pred seštevanjem in odštevanjem. V izrazu z oklepaji pa opravimo najprej operacije v oklepajih.

IZRAZ BREZ OKLEPAJA:

$$\frac{2}{3} + \frac{14}{10} \cdot \frac{15}{21} = \text{ (prednost ima množenje!)}$$

$$\frac{2}{3} + \frac{14}{10} \cdot \frac{15}{21} = \frac{2}{3} + \frac{14 \cdot 15 \cdot 2 \cdot 3 \cdot 1}{10 \cdot 21 \cdot 2 \cdot 3 \cdot 1} = \frac{2 \cdot 1}{3 \cdot 1} + \frac{1 \cdot 3}{1 \cdot 3} = \frac{2}{3} + \frac{3}{3} = \frac{5}{3} = 1 \frac{2}{3}$$

IZRAZ Z OKLEPAJEM:

$$\frac{4}{5} : \left(\frac{5}{6} + 1 \frac{2}{3} \right) = \text{ (najprej izračunamo v oklepaju) }$$

$$\begin{aligned} 1 \frac{1}{4} : \left(\frac{5}{6} + 1 \frac{2}{3} \right) &= \frac{5}{4} : \left(\frac{5}{6} + \frac{5}{3} \right) = \frac{5}{4} : \left(\frac{5 \cdot 1}{6 \cdot 1} + \frac{5 \cdot 2}{3 \cdot 2} \right) = \frac{5}{4} : \left(\frac{5}{6} + \frac{10}{6} \right) = \frac{5}{4} : \frac{15}{6} = \\ &= \frac{5}{4} \cdot \frac{6}{15} = \frac{5 \cdot 6 \cdot 1 \cdot 3 \cdot 1}{4 \cdot 15 \cdot 3 \cdot 2 \cdot 1} = \frac{1}{2} \end{aligned}$$

Izračunaj.

$$\frac{1}{3} + \frac{2}{11} \cdot \frac{11}{15} =$$

$$2 \frac{1}{2} + 2 \frac{1}{7} \cdot \frac{7}{10} =$$

$$1 \frac{6}{10} \cdot \left(1 \frac{1}{4} + 7 \frac{1}{2} \right) =$$

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

$$2\frac{1}{2} \cdot 1\frac{4}{5} - 5 : 1\frac{1}{4} =$$

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

$$\left(\frac{1}{2} + \frac{1}{2}\right) : \frac{1}{2} - \frac{1}{2} \cdot \left(\frac{1}{2} - \frac{1}{2}\right) =$$

$$\frac{1}{2} + \frac{1}{2} : \frac{1}{2} - \frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2} =$$