

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:

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

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

$$\frac{3}{4} \cdot \frac{12}{5} + \frac{4}{15} =$$

$$\frac{2}{5} \cdot \frac{10}{12} - \frac{2}{3} =$$

$$\frac{3}{7} + \frac{9}{14} \cdot \frac{7}{3} =$$

$$\frac{5}{9} - \frac{3}{8} \cdot \frac{4}{5} - 1 =$$

$$\frac{5}{8} \cdot \frac{4}{3} - \frac{2}{5} \cdot \frac{7}{4} =$$

$$\frac{10}{13} \cdot \left(\frac{39}{5}\right) + \frac{5}{12} \cdot \frac{6}{5} =$$

$$\left(\frac{1}{2} + \frac{3}{4} - \frac{5}{6}\right) \cdot \frac{12}{13} =$$

$$\frac{3}{4} + \frac{5}{8} \cdot \left(\frac{7}{12} \cdot \frac{21}{5} - \frac{9}{10}\right) =$$

$$\left(3\frac{2}{5} + 2\frac{1}{2} \cdot 3\frac{3}{5}\right) \cdot \left(1\frac{3}{4} - \frac{7}{10}\right) =$$

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

$$\left(\frac{3}{4} - \frac{1}{2} + \frac{1}{3} \right) : \frac{7}{6} =$$

$$\left(1\frac{1}{9} - \frac{2}{3} \right) \cdot \left(2\frac{3}{4} + \frac{9}{4} : 1\frac{1}{8} \right) =$$