

SMÍŠENÁ ČÍSLA

KLADNÁ

$$\frac{17}{4} = 4\frac{1}{4} = 4 + \frac{1}{4} \quad \text{○} \quad \text{○} \quad \text{○} \quad \text{○} \quad \text{○}$$

$$\frac{5}{2} = 2\frac{1}{2} = 2 + \frac{1}{2} \quad \text{○} \quad \text{○} \quad \text{○}$$

$$\frac{11}{3} = 3\frac{2}{3} = 3 + \frac{2}{3} \quad \text{○} \quad \text{○} \quad \text{○} \quad \text{○}$$

ZÁPORNÁ

$$-\frac{17}{4} = -4\frac{1}{4} = -4 - \frac{1}{4}$$

$$-\frac{5}{2} = -2\frac{1}{2} = -2 - \frac{1}{2}$$

$$-\frac{11}{3} = -3\frac{1}{3} = -3 - \frac{1}{3}$$

SCÍTÁNÍ

$$\begin{aligned} \bullet \quad 2\frac{1}{2} + 3\frac{2}{3} &= 2 + \frac{1}{2} + 3 + \frac{2}{3} = 2 + 3 + \frac{1}{2} + \frac{2}{3} = \\ &5 + \frac{3}{6} + \frac{4}{6} = 5 + \frac{7}{6} = 5 + 1 + \frac{1}{6} = 6 + \frac{1}{6} = 6\frac{1}{6} \end{aligned}$$

ODČÍTÁNÍ

$$\begin{aligned} \bullet \quad 3\frac{2}{3} - 2\frac{1}{2} &= 3 + \frac{2}{3} - 2 - \frac{1}{2} = 3 - 2 + \frac{2}{3} - \frac{1}{2} = \\ &1 + \frac{4}{6} - \frac{3}{6} = 1 + \frac{1}{6} = 1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} \bullet \quad 2\frac{1}{2} - 3\frac{2}{3} &= 2 + \frac{1}{2} - 3 - \frac{2}{3} = 2 - 3 + \frac{1}{2} - \frac{2}{3} = \\ &-1 + \frac{3}{6} - \frac{4}{6} = -1 - \frac{1}{6} = -1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} \bullet \quad 3\frac{1}{2} - 2\frac{2}{3} &= 3 + \frac{1}{2} - 2 - \frac{2}{3} = 3 - 2 + \frac{1}{2} - \frac{2}{3} = 1 + \frac{3}{6} - \frac{4}{6} = \\ &1 - \frac{1}{6} = \frac{6}{6} - \frac{1}{6} = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} \bullet \quad 2\frac{2}{3} - 3\frac{1}{2} &= 2 + \frac{2}{3} - 3 - \frac{1}{2} = 2 - 3 + \frac{2}{3} - \frac{1}{2} = -1 + \frac{4}{6} - \frac{3}{6} = \\ &-1 + \frac{1}{6} = -\frac{6}{6} + \frac{1}{6} = \frac{-6+1}{6} = -\frac{5}{6} \end{aligned}$$

NÁSOBENÍ

$$\bullet \quad 2\frac{1}{2} \cdot 3\frac{2}{3} = \frac{5}{2} \cdot \frac{11}{3} = \frac{5 \cdot 11}{2 \cdot 3} = \frac{55}{6} = 9\frac{1}{6}$$

NUTNO PŘEVÉST NA ZLOMKY

$$\bullet \quad 2\frac{2}{3} \cdot 3\frac{1}{2} = \frac{8}{3} \cdot \frac{7}{2} = \frac{8 \cdot 7}{3 \cdot 2} = \frac{4 \cdot 7}{3 \cdot 1} = \frac{28}{3} = 9\frac{1}{3}$$

DĚLENÍ

NUTNO PŘEVÉST NA ZLOMKY

$$\bullet \quad 2\frac{1}{2} : 3\frac{2}{3} = \frac{5}{2} : \frac{11}{3} = \frac{5}{2} \cdot \frac{3}{11} = \frac{5 \cdot 3}{2 \cdot 11} = \frac{15}{22}$$