

① ★ Berechne die unbekannte Variable.

$$\begin{aligned} \text{a)} \quad \frac{x}{2} &= 6 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{b)} \quad \frac{x}{4} &= 5 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{c)} \quad \frac{x}{3} &= 10 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{d)} \quad \frac{x}{6} &= 1 \\ x &= \square \end{aligned}$$

② ★ Berechne die unbekannte Variable.

$$\begin{aligned} \text{a)} \quad \frac{10 \cdot x}{3} - 9 &= 1 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{b)} \quad \frac{11 \cdot x}{2} - 14 &= -3 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{c)} \quad \frac{7 \cdot x}{2} + 3 &= 10 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{d)} \quad \frac{4 \cdot x}{4} - 17 &= -15 \\ x &= \square \end{aligned}$$

③ ★ Berechne die unbekannte Variable.

$$\begin{aligned} \text{a)} \quad \frac{6x}{63} &= \frac{16}{3} \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{b)} \quad \frac{5x}{28} &= \frac{30}{7} \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{c)} \quad \frac{2x}{24} &= \frac{4}{3} \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{d)} \quad \frac{5x}{16} &= \frac{25}{4} \\ x &= \square \end{aligned}$$

④ ★★ Berechne die unbekannte Variable.

$$\begin{aligned} \text{a)} \quad 7\left(x + \frac{4}{7}\right) &= 4\left(\frac{7}{4} + x\right) \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{b)} \quad 9\left(x + \frac{7}{8}\right) &= 9\left(x - \frac{9}{4}\right) \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{c)} \quad -\frac{7x}{4} + 3 &= -\frac{3x}{14} + 3 \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{d)} \quad \frac{3}{2} &= \frac{7-x}{8} \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{e)} \quad \frac{9x-8}{11} &= \frac{4x}{5} \\ x &= \square \end{aligned}$$

$$\begin{aligned} \text{f)} \quad \frac{2x-6}{5} &= \frac{6+5x}{11} \\ x &= \square \end{aligned}$$