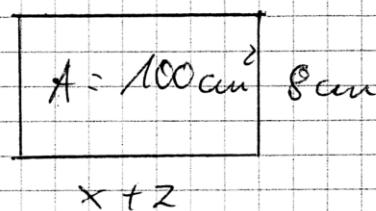


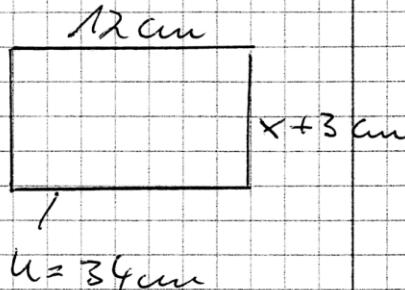
Tagliche Übung

1. Stelle eine Gleichung auf und berechne x !

a.)



b.)



2. Löse die Gleichungen!

a.) $7 + (4x + 8) = 19$ b.) $4x - (x - 12) = 27$

c.) $(5 + x) \cdot (-3) = 3x + 9$

1.

a.)

$$\begin{aligned} A &= a \cdot b \\ 100 &= (x+2) \cdot 8 \\ 100 &= 8x + 16 \\ 100 - 16 &= 8x \\ 84 &= 8x \\ \underline{\underline{x = 10,5 \text{ cm}}} \end{aligned}$$

b.)

$$\begin{aligned} u &= 2a + 2b \\ 34 &= 2 \cdot 12 + 2(x+3) \\ 34 &= 24 + 2x + 6 \\ 34 - 30 &= 2x \\ 4 &= 2x \\ \underline{\underline{x = 2 \text{ cm}}} \end{aligned}$$

2. a.)

$$\begin{aligned} 7 + (4x + 8) &= 19 \\ 7 + 4x + 8 &= 19 \\ 15 + 4x &= 19 \\ 15 - 15 &= 4x \\ 4x &= 4 \\ \underline{\underline{x = 1}} \end{aligned}$$

b.)

$$\begin{aligned} 4x - (x - 12) &= 27 \\ 4x - x + 12 &= 27 \\ 3x + 12 &= 27 \\ 3x &= 15 \\ \underline{\underline{x = 5}} \end{aligned}$$

$$\begin{aligned} (5 + x)(-3) &= 3x + 9 \\ -15 - 3x &= 3x + 9 \\ -15 &= 6x + 9 \\ -24 &= 6x \\ \underline{\underline{x = -4}} \end{aligned}$$