

1. a) $500 \text{ mm}^2 = 0,000500 \text{ m}^2$ b) $280 \text{ a} = 280000000 \text{ cm}^2$
 $25 \text{ cm}^2 = 0,0025 \text{ m}^2$ $5,03 \text{ km}^2 = 50300 \text{ a}$
- c) $12 \text{ ha} = 0,12 \text{ km}^2$ d) $0,0457 \text{ dm}^2 = 457 \text{ mm}^2$
 $0,375 \text{ a} = 37,5 \text{ m}^2$ $0,00012 \text{ a} = 120 \text{ cm}^2$

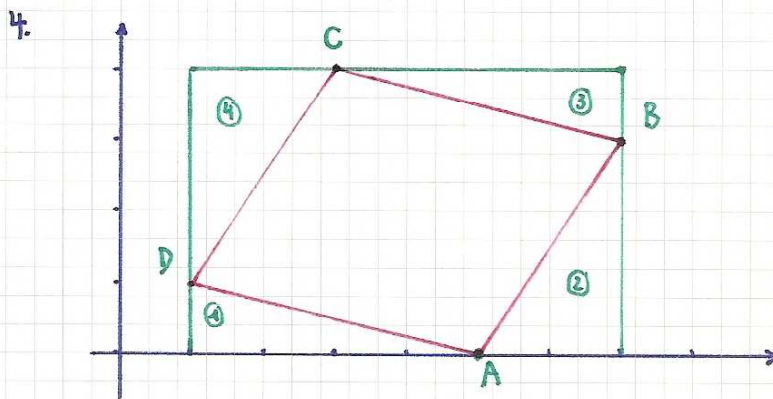
2. geg: $a = 19 \text{ cm}$, $h = 12 \text{ cm}$, $A = 180 \text{ cm}^2$
 ges: c, m

a) $A = m \cdot h$
 $m = A/h = \frac{180}{12} = \underline{\underline{15 \text{ cm}}}$

b) $m = \frac{a+c}{2}$
 $c = 2m - a = 2 \cdot 15 - 19 = \underline{\underline{11 \text{ cm}}}$

3. $A_1 = A_2$
 $2,5 + 2 \cdot x = \frac{6+3}{2} \cdot x$
 $10 + 2x = 4,5x \quad | -2x$
 $10 = 2,5x \quad | :2,5$
 $4 = x$

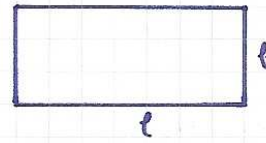
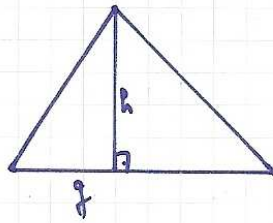
$x = \underline{\underline{4 \text{ cm}}}$



$A = l \cdot b = 60 \cdot 40 = 2400 \text{ m}^2$
 $- A_1 = \frac{l \cdot b}{2} = \frac{40 \cdot 40}{2} = 200 \text{ m}^2$
 $- A_2 = \frac{l \cdot b}{2} = \frac{20 \cdot 30}{2} = 300 \text{ m}^2$
 $- A_3 = \frac{l \cdot b}{2} = \frac{40 \cdot 40}{2} = 200 \text{ m}^2$
 $- A_4 = \frac{l \cdot b}{2} = \frac{20 \cdot 30}{2} = 300 \text{ m}^2$
 $A_{ABCD} = 1400 \text{ m}^2$

5. $A_{\text{Dreieck}} = \frac{l \cdot b}{2} = \frac{10 \cdot 39}{2} = 195 \text{ m}^2$
 $A_{1-3} = l \cdot b + l \cdot b + l \cdot b = 30 \cdot 39 + 7,5 + 27 \cdot 9 = 1170 \text{ m}^2 + 35 \text{ m}^2 + 243 \text{ m}^2 = 1448 \text{ m}^2$
 $A = 1643 \text{ m}^2$

6. geg: $g = 18 \text{ cm}$, $h = 12 \text{ cm}$, $l = 12 \text{ cm}$
ges: $b = ?$



$$1. A = \frac{g \cdot h}{2} = \frac{18 \cdot 12}{2} = 108 \text{ cm}^2$$

$$2. A = l \cdot b$$

$$b = A/l = 108/12 = \underline{\underline{9 \text{ cm}}}$$