

LÖSUNGEN : FLÄCHENBERECHNUNGEN TEST a

1. a) $0,0004 \text{ m}^2$ b) 340 Mio cm^2 c) 120000 m^2 d) $0,00000034 \text{ km}^2$
 $0,0025 \text{ m}^2$ 5 dm 500 a $0,0000000000456 \text{ ha}$

2. GEG: $c = 54 \text{ cm}$ Ges: A, b
 $h_c = 31 \text{ cm}$
 $a = 43 \text{ cm}$

a) $A = \frac{c \cdot h_c}{2} = 837 \text{ cm}^2$

b) $A = \frac{a \cdot b}{2}$
 $b = \frac{2A}{a} = \underline{\underline{38,93 \text{ cm}}}$

3.

$$A = \frac{a+c}{2} \cdot h = \frac{68,3 + 48,6}{2} \cdot 57,4 = 3355,03 \text{ mm}^2$$

$$- A_1 = \frac{g \cdot h}{2} = \frac{68,3 \cdot 44,8}{2} = 1529,92 \text{ mm}^2$$

$$- A_2 = \frac{a+c}{2} \cdot h = \frac{48,6 + 26,6}{2} \cdot 12,6 = 473,76 \text{ mm}^2$$

$A_{\text{||}} = \underline{\underline{1351,35 \text{ mm}^2}}$

4. GEG: $A = 9,3 \text{ m}^2$
 $c = 2,7 \text{ m}$
 $m = 3,1 \text{ m}$

a) $m = \frac{a+c}{2}$
 $a = 2m - c = \underline{\underline{3,5 \text{ m}}}$

Ges: a, h

b) $A = m \cdot h$
 $h = \frac{A}{m} = \underline{\underline{3 \text{ m}}}$

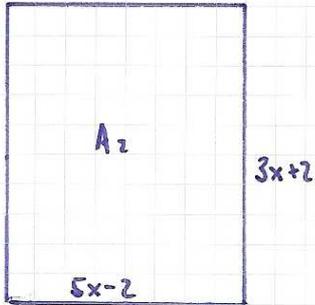
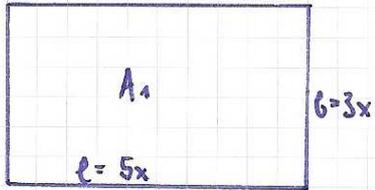
5.

a) $A = \frac{c \cdot f}{2} = \underline{\underline{187,5 \text{ cm}^2}}$

b) $A = \frac{c \cdot h_c}{2} \Rightarrow h_c = \frac{2A}{c} = \underline{\underline{12,5 \text{ cm}}}$

c) $A = \frac{a+c}{2} \cdot h \Rightarrow h = \frac{2A}{a+c} = \underline{\underline{15 \text{ cm}}}$

6.



$$a) \quad A_1 = A_2$$

$$5x \cdot 3x = (5x-2)(3x+2)$$

$$15x^2 = 15x^2 + 10x - 6x - 4 \quad | -15x^2$$

$$0 = 4x - 4 \quad | +4$$

$$4 = 4x \quad | :4$$

$$1 = x$$

$$\text{also : } l = 5x = \underline{\underline{5 \text{ cm}}}$$

$$b = 3x = \underline{\underline{3 \text{ cm}}}$$

$$b) \quad A = l \cdot b = \underline{\underline{15 \text{ cm}^2}}$$