



$$A_{\text{innen}} = 56 \cdot 0.25 \text{ cm}^2 = 14 \text{ cm}^2$$

$$A_{\text{ausser}} = 96 \cdot 0.25 \text{ cm}^2 = 24 \text{ cm}^2$$

$$A \approx \frac{14 \text{ cm}^2 + 24 \text{ cm}^2}{2}$$

$$A \approx 19 \text{ cm}^2$$

(Exakt wäre :  $18.10 \text{ cm}^2$ )

2. (a)  $l = 8 \text{ cm}$ ,  $b = 2 \text{ cm}$

$$A = l \cdot b$$

$$A = 8 \text{ cm} \cdot 2 \text{ cm}$$

$$A = 16 \text{ cm}^2$$

$$u = 2(l + b)$$

$$u = 2(8 \text{ cm} + 2 \text{ cm})$$

$$u = 20 \text{ cm}$$

(b)  $l = 7 \text{ dm}$ ,  $b = 4 \text{ cm}$

$$A = l \cdot b$$

$$A = 70 \text{ cm} \cdot 4 \text{ cm}$$

$$A = 280 \text{ cm}^2 = 2.8 \text{ dm}^2$$

$$u = 2(l + b)$$

$$u = 2(70 \text{ cm} + 4 \text{ cm})$$

$$u = 148 \text{ cm}$$

3. (a)  $l = 12 \text{ mm}$

$$A = l \cdot l = l^2$$

$$= 12 \text{ cm} \cdot 12 \text{ mm}$$

$$= 144 \text{ mm}^2$$

$$u = 4 \cdot l$$

$$u = 4 \cdot 12 \text{ mm}$$

$$u = 48 \text{ mm}$$

(b)  $l = 7 \text{ km}$

$$A = l \cdot l = l^2$$

$$A = 7 \text{ km} \cdot 7 \text{ km}$$

$$A = 49 \text{ km}^2$$

$$u = 4 \cdot l$$

$$u = 4 \cdot 7 \text{ km}$$

$$u = 28 \text{ km}$$

4. (a)  $A = 39 \text{ m}^2$ ,  $b = 3 \text{ m}$

$$l = A : b$$

$$l = 39 \text{ m}^2 : 3 \text{ m}$$

$$l = 13 \text{ m}$$

$$u = 2 \cdot (l + b)$$

$$u = 2 \cdot 16 \text{ m}$$

$$u = 32 \text{ m}$$

(b)  $A = 12 \text{ cm}^2 = 1200 \text{ mm}^2$ ,  $b = 5 \text{ mm}$

$$l = A : b$$

$$l = 2400 \text{ mm}^2 : 5 \text{ mm}$$

$$l = 240 \text{ mm}$$

$$u = 2 \cdot (l + b)$$

$$u = 2 \cdot 245 \text{ mm}$$

$$u = 490 \text{ mm} = 49 \text{ cm}$$

5. (a)  $u = 32 \text{ cm}$ ,  $l = 13 \text{ cm}$

$$b = \frac{u}{2} - l$$

$$b = 16 \text{ cm} - 13 \text{ cm}$$

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

$$A = l \cdot b$$

$$A = 13 \text{ cm} \cdot 4 \text{ cm}$$

$$A = 52 \text{ cm}^2$$

(b)  $u = 1 \text{ cm} = 10 \text{ mm}$ ,  $l = 3 \text{ mm}$

$$b = \frac{u}{2} - l$$

$$b = 5 \text{ mm} - 3 \text{ mm}$$

$$b = 2 \text{ mm}$$

$$A = l \cdot b$$

$$A = 3 \text{ mm} \cdot 2 \text{ mm}$$

$$A = 6 \text{ mm}^2$$

6.  $A = 81 \text{ m}^2 \Rightarrow l = 9 \text{ m}$

$$u = 4 \cdot l = 4 \cdot 9 \text{ m} = 36 \text{ m}$$

7.  $l = u/4 = 24 \text{ cm}/4 = 6 \text{ cm}$

$$A = l \cdot l = 36 \text{ cm}^2$$