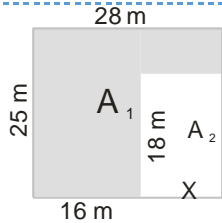


Rechteck & Quadrat – Zusammengesetzte Flächen

Lösungsblatt

Berechne bei folgenden Flächen Umfang (U) und Flächeninhalt (A)!



$$x = 28 - 16 = \underline{12 \text{ m}}$$

$$A = A_1 - A_2$$

$$A_1 = 28 \cdot 25$$

$$\underline{A_1 = 700 \text{ m}^2}$$

$$A_2 = 18 \cdot 12$$

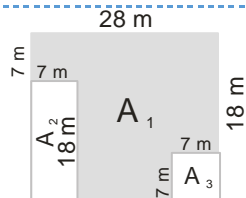
$$\underline{A_2 = 216 \text{ m}^2}$$

$$A = 700 - 216$$

$$\underline{A = 484 \text{ m}^2}$$

$$U = 28 + 25 + 16 + 18 + 12 + 7$$

$$\underline{U = 106 \text{ m}} \quad [= 2 \cdot (28 + 25)]$$



$$A = A_1 - A_2 - A_3$$

$$A_1 = 28 \cdot (18 + 7)$$

$$A_1 = 28 \cdot 25$$

$$\underline{A_1 = 700 \text{ m}^2}$$

$$A_2 = 18 \cdot 7$$

$$\underline{A_2 = 126 \text{ m}^2}$$

$$A_3 = 7 \cdot 7$$

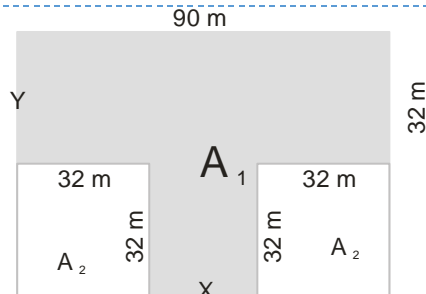
$$\underline{A_3 = 49 \text{ m}^2}$$

$$A = 700 - 126 - 49$$

$$\underline{A = 525 \text{ m}^2}$$

$$U = 28 + 7 + 7 + 18 + 14 + 7 + 7 + 18$$

$$\underline{U = 106 \text{ m}} \quad [= 2 \cdot (28 + 25)]$$



$$x = 90 - 32 - 32 = \underline{26 \text{ m}}; \quad y = \underline{32 \text{ m}};$$

$$A = A_1 - 2 \cdot A_2$$

$$A_1 = 90 \cdot (32 + 32)$$

$$A_1 = 90 \cdot 64$$

$$\underline{A_1 = 5760 \text{ m}^2}$$

$$A_2 = 32 \cdot 32$$

$$\underline{A_2 = 1024 \text{ m}^2}$$

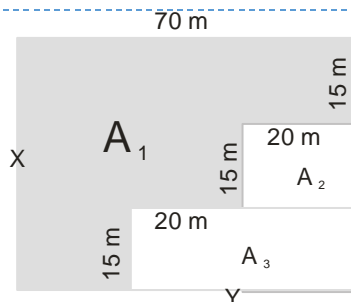
$$A = 5760 - 2 \cdot 1024$$

$$\underline{A = 3712 \text{ m}^2}$$

$$U = 90 + 6 \cdot 32 + 26$$

$$U = 90 + 192 + 26$$

$$\underline{U = 308 \text{ m}} \quad [= 2 \cdot (90 + 64)]$$



$$x = 3 \cdot 15 = \underline{45 \text{ m}}; \quad y = 20 + 20 = \underline{40 \text{ m}};$$

$$A = A_1 - A_2 - A_3$$

$$A_1 = 70 \cdot (15 \cdot 3)$$

$$A_1 = 70 \cdot 45$$

$$\underline{A_1 = 3150 \text{ m}^2}$$

$$A_2 = 20 \cdot 15$$

$$\underline{A_2 = 300 \text{ m}^2}$$

$$A_3 = 40 \cdot 15$$

$$\underline{A_3 = 600 \text{ m}^2}$$

$$A = 3150 - 300 - 600 \quad | \quad U = 70 + 15 + 20 + 15 + 20 + 15 + 30 + 45$$

$$\underline{A = 2250 \text{ m}^2}$$

$$\underline{U = 230 \text{ m}}$$

$$[= 2 \cdot (70 + 45)]$$