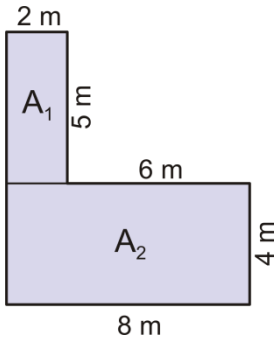
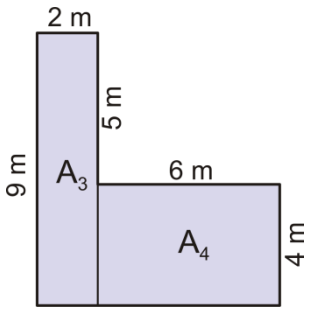
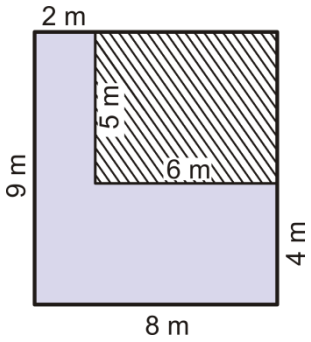
Flächeninhalt zusammengesetzter Figuren - Lösungen

1. **a)** $A_1 = 2 \cdot 5 = 10$ oder: $A_3 = 2 \cdot (5 + 4) = 18$
$A_2 = (2 + 6) \cdot 4 = 32$ $A_4 = 6 \cdot 4 = 24$
$A = A_1 + A_2 = 42\ m^2$ $A = A_3 + A_4 = 42\ m^2$

b) $A_g = (5 + 4) \cdot (2 + 6) = 9 \cdot 8 = 72$
$A_k = 5 \cdot 6 = 30$
$A = A_g - A_k = 42\ m^2$

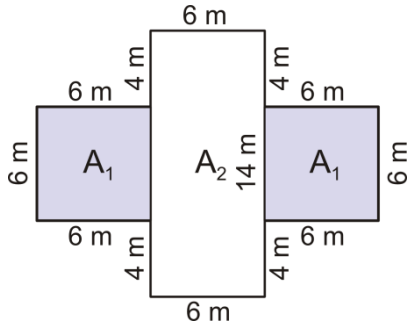


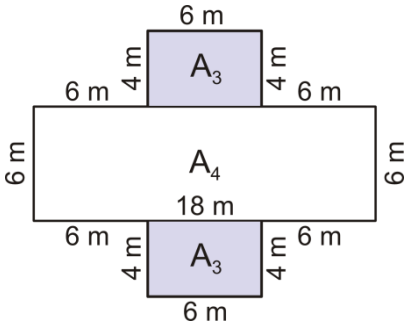


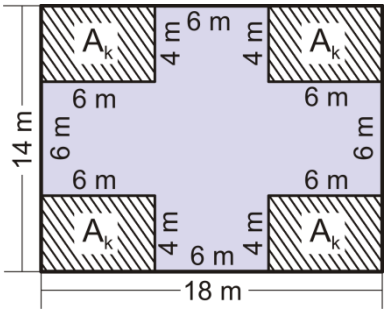


2. **a)** $A_1 = 6 \cdot 6 = 36$ oder: $A_3 = 6 \cdot 4 = 24$
$A_2 = (4 + 6 + 4) \cdot 6 = 84$ $A_4 = (6 + 6 + 6) \cdot 6 = 108$
$A = 2 \cdot A_1 + A_2 = 156\ m^2$ $A = 2 \cdot A_3 + A_4 = 156\ m^2$

b) $A_g = 18 \cdot 14 = 252$
$A_k = 6 \cdot 4 = 24$
$A = A_g - 4 \cdot A_k = 156\ m^2$







3. **a)** $A_1 = 4 \cdot 8 = 32$ oder: $A_4 = 8 \cdot 6 = 48$
$A_2 = 10 \cdot 4 = 40$ $A_5 = 2 \cdot 14 = 28$
$A_3 = 6 \cdot 4 = 24$ $A_6 = 2 \cdot 10 = 20$
$A = A_1 + A_2 + A_3 = 96\ m^2$ $A = A_4 + A_5 + A_6 = 96\ m^2$

b) $A_g = 14 \cdot 10 = 140$
$A_{k1} = 6 \cdot 6 = 36$
$A_{k2} = 2 \cdot 4 = 8$
$A = A_g - A_{k1} - A_{k2} = 96\ m^2$