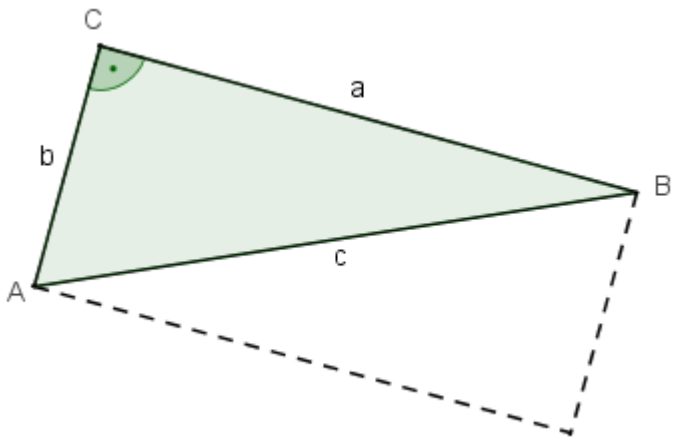
Flächeninhalt des rechtwinkligen Dreiecks



$$\text{Fläche} = \frac{\text{Rechtecksfläche}}{2}$$

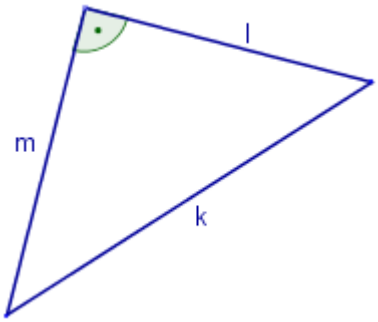
$$A = \frac{\text{Produkt der Katheten}}{2}$$

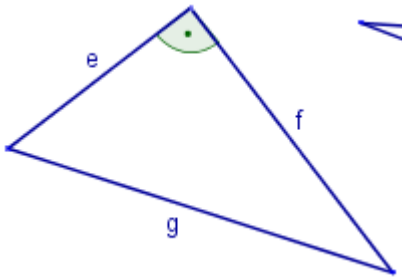
$$A = \frac{a \cdot b}{2}$$

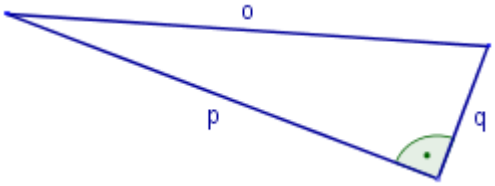
a, b … Katheten

c ….....Hypotenuse

Gib die Flächen- und die Umfangformel dieser rechtwinkeligen Dreiecke an!







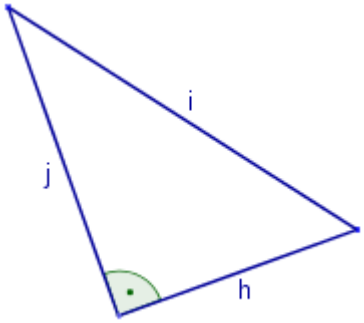
$A = \frac{l \cdot m}{2}$
$u = k + l + m$

$A = \frac{e \cdot f}{2}$
$u = e + f + g$

$A = \frac{p \cdot q}{2}$
$u = o + p + q$

Berechne die Fläche und den Umfang! Miss die Längen der Seiten!

h = 3,3 cm i = 5,5 cm j = 4,3 cm



$A = \frac{h \cdot j}{2}$

$A = \frac{3{,}3 \cdot 4{,}3}{2}$

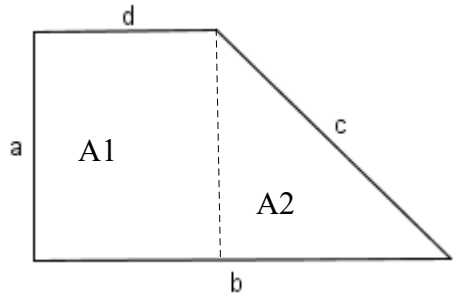
$A = 7{,}095\,\text{cm}^2 \approx 7{,}1\,\text{cm}^2$

$u = h + i + j$

$u = 3{,}3 + 5{,}5 + 4{,}3$

$u = 13{,}1\,\text{cm}$

Berechne die Flächen dieser Figuren!



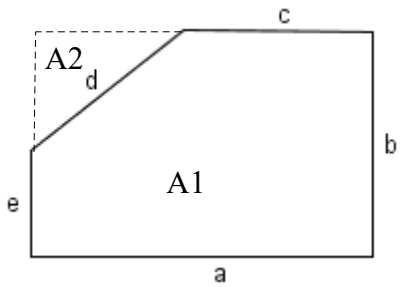
a = 3 cm

b = 5,5 cm

c = 4,3 cm

d = 2,4 cm

$$A = A1 + A2$$
$$A = a \cdot d + \frac{a \cdot (b - d)}{2}$$
$$A = 3 \cdot 2{,}4 + \frac{3 \cdot (5{,}5 - 2{,}4)}{2}$$
$$A = 11{,}85\,\text{cm}^2$$



a = 4,5 cm

b = 3 cm

c = 2,5 cm

d = 2,6 cm

e = 1,4 cm

$$A = A1 - A2$$
$$A = a \cdot b - \frac{(a - c) \cdot (b - e)}{2}$$
$$A = 4{,}5 \cdot 3 - \frac{2 \cdot 1{,}6}{2}$$
$$A = 11{,}9\,\text{cm}^2$$