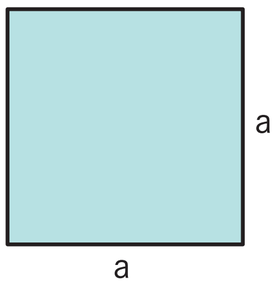
kapiert.de
westermann

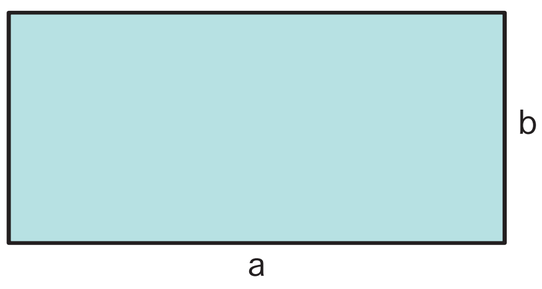
FLÄCHENBERECHNUNG

Quadrat



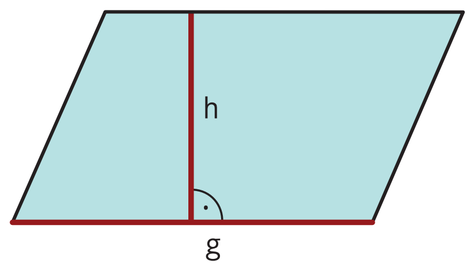
$A = a^2$

Rechteck



$A = a \cdot b$

Parallelogramm

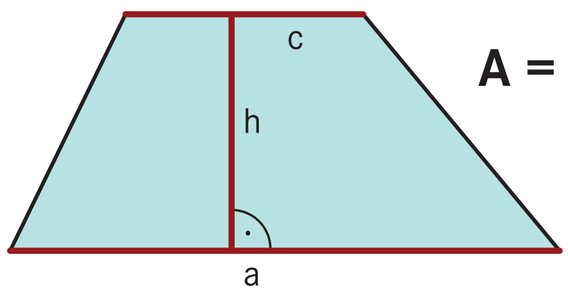


$A = g \cdot h$

Abkürzungen

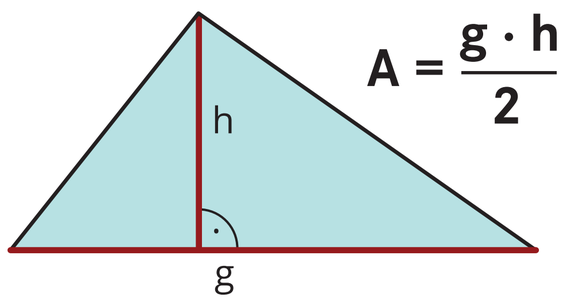
- **A =** Flächeninhalt englisch „area“
- **G =** Grundfläche
- **h =** Höhe
- **M =** Mantelfläche
- **O =** Oberfläche
- **u =** Umfang
- **V =** Volumen
- **π ≈** 3,14

Trapez



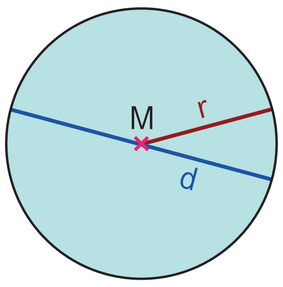
$A = \frac{(a+c) \cdot h}{2}$

Dreieck



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

Kreis



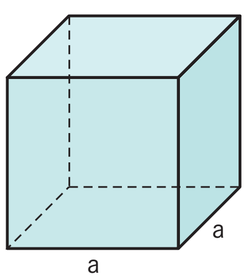
$A = \pi \cdot r^2$

$u = 2 \cdot \pi \cdot r$

$d = 2 \cdot r$

KÖRPERBERECHNUNG

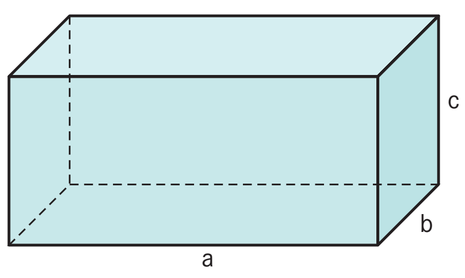
Würfel



$V = a^3$

$O = 6 \cdot a^2$

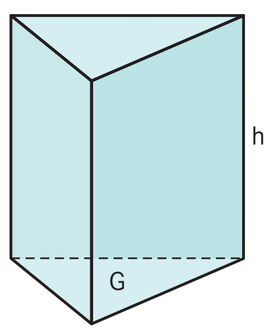
Quader



$V = a \cdot b \cdot c$

$O = 2 \cdot a \cdot b + 2 \cdot b \cdot c + 2 \cdot a \cdot c$

Prisma

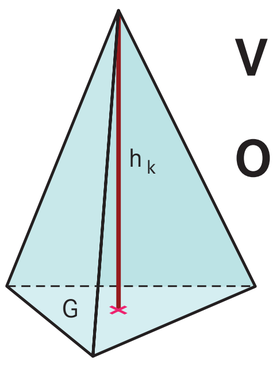


$V = G \cdot h_k$

$M = u \cdot h_k$

$O = 2 \cdot G + M$

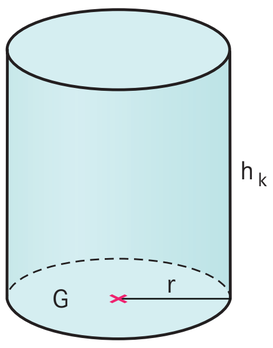
Pyramide



$V = \frac{1}{3} \cdot G \cdot h_k$

$O = G + M$

Zylinder

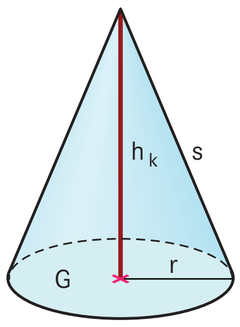


$V = \pi \cdot r^2 \cdot h_k$

$M = u \cdot h_k$

$O = 2 \cdot G + M$

Kegel



$V = \frac{1}{3} \cdot G \cdot h_k$

$M = \pi \cdot r \cdot s$

$O = G + M$

WICHTIGE EINHEITEN

Längen

: 1000	km	· 1000
: 10	m	· 10
: 10	dm	· 10
: 10	cm	· 10
: 10	mm	· 10

Flächeninhalt

: 100	km^2	· 100
: 100	ha	· 100
: 100	a	· 100
: 100	m^2	· 100
: 100	dm^2	· 100
: 100	cm^2	· 100
: 100	mm^2	· 100

Volumen

: 1000	m^3	· 1000
: 1000	l (dm^3)	· 1000
: 1000	ml (cm^3)	· 1000
: 1000	mm^3	· 1000

Masse/Gewicht

: 1000	t	· 1000
: 1000	kg	· 1000
: 1000	g	· 1000
: 1000	mg	· 1000