Prehľad vzťahov a jednotiek

Jednotky dĺžky:
km, m, dm, cm, mm

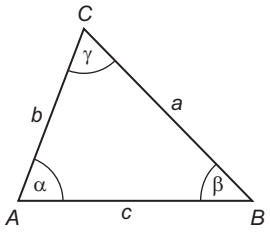
Jednotky obsahu:
km^2, ha, a, m^2, dm^2, cm^2, mm^2

Jednotky objemu:
km^3, m^3, dm^3, cm^3, mm^3
hl, l, dl, cl, ml

Jednotky času:
deň, h, min, s

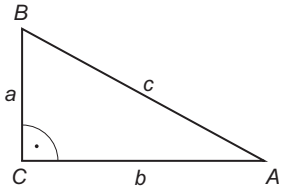
Jednotky hmotnosti:
t, kg, dag, g, mg

Uhly v trojuholníku



$\alpha + \beta + \gamma = 180°$

Pravouhlý trojuholník

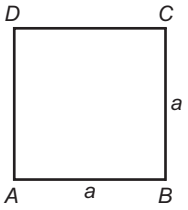


$c^2 = a^2 + b^2$

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

Obvody a obsahy rovinných útvarov

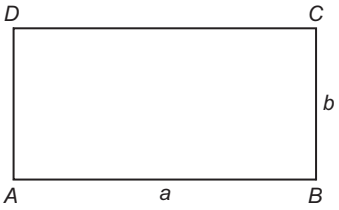
Štvorec



$o = 4 \cdot a$

$S = a^2$

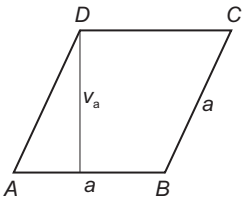
Obdĺžnik



$o = 2 \cdot (a + b)$

$S = a \cdot b$

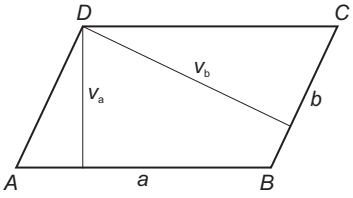
Kosoštvorec



$o = 4 \cdot a$

$S = a \cdot v_a$

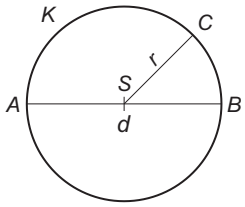
Kosodĺžnik



$o = 2 \cdot (a + b)$

$S = a \cdot v_a = b \cdot v_b$

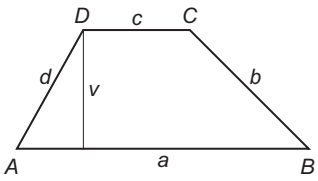
Kruh



$o = 2 \cdot \pi \cdot r = \pi \cdot d$

$S = \pi \cdot r^2$

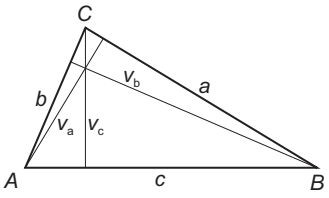
Lichobežník



$o = a + b + c + d$

$S = \frac{(a + c) \cdot v}{2}$

Trojuholník

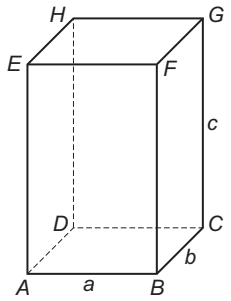


$o = a + b + c$

$S = \frac{a \cdot v_a}{2} = \frac{b \cdot v_b}{2} = \frac{c \cdot v_c}{2}$

Objemy a povrchy telies

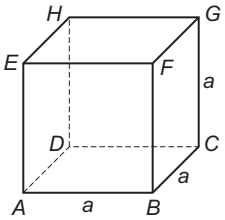
Kváder



$V = a \cdot b \cdot c$

$S = 2 \cdot (a \cdot b + b \cdot c + a \cdot c)$

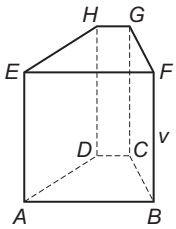
Kocka



$V = a^3$

$S = 6 \cdot a^2$

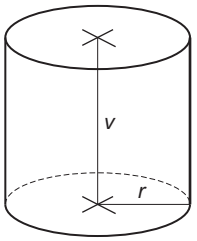
Hranol



$V = S_p \cdot v$

$S = 2 \cdot S_p + S_{pl}$

Valec



$V = S_p \cdot v = \pi \cdot r^2 \cdot v$

$S = 2 \cdot S_p + S_{pl}$

$S = 2 \cdot \pi \cdot r^2 + 2 \cdot \pi \cdot r \cdot v$

S_p – obsah podstavy, S_{pl} – obsah plášťa