

Prehľad vzťahov a jednotiek

Jednotky dĺžky:

km, m, dm, cm, mm

Jednotky obsahu:

km², ha, a, m², dm², cm², mm²

Jednotky objemu:

km³, m³, dm³, cm³, mm³

hl, l, dl, cl, ml

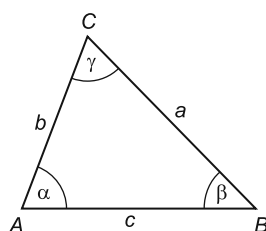
Jednotky času:

deň, h, min, s

Jednotky hmotnosti:

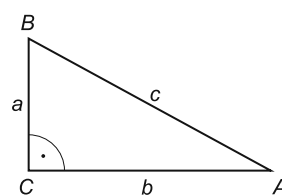
t, kg, dag, g, mg

Uhly v trojuholníku



$$\alpha + \beta + \gamma = 180^\circ$$

Pravouhlý trojuholník

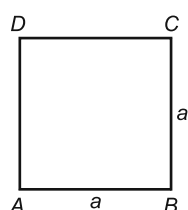


$$c^2 = a^2 + b^2$$

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

Obvody a obsahy rovinných útvarov

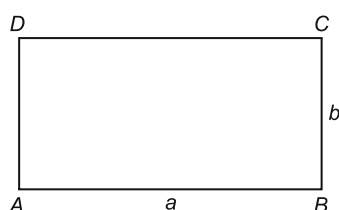
Štvorec



$$o = 4 \cdot a$$

$$S = a^2$$

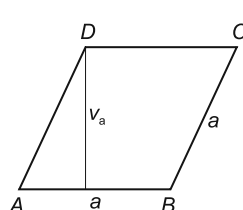
Obdĺžnik



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

$$S = a \cdot b$$

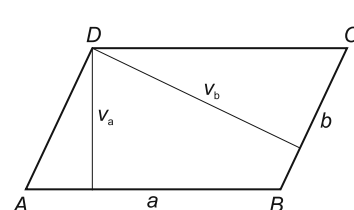
Kosoštvorec



$$o = 4 \cdot a$$

$$S = a \cdot v_a$$

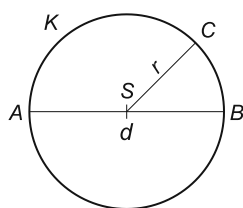
Kosodĺžnik



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

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

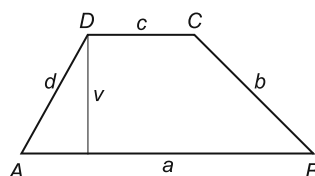
Kruh



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

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

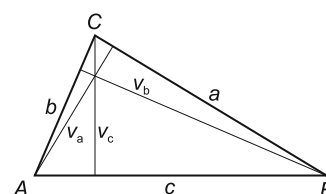
Lichobežník



$$o = a + b + c + d$$

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

Trojuholník

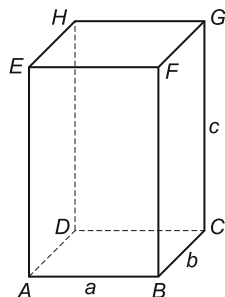


$$o = a + b + c$$

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

Objemy a povrchy telies

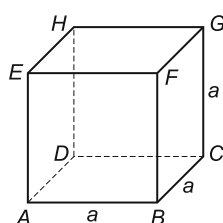
Kváder



$$V = a \cdot b \cdot c$$

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

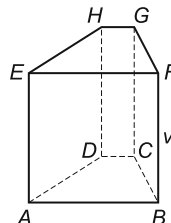
Kocka



$$V = a^3$$

$$S = 6 \cdot a^2$$

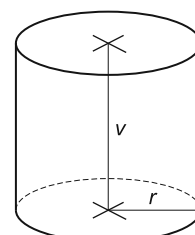
Hranol



$$V = S_p \cdot v$$

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

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