

FORMULE DI GEOMETRIA SOLIDA


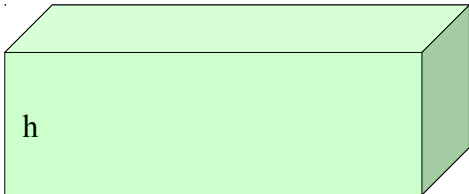
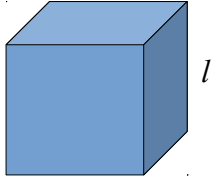

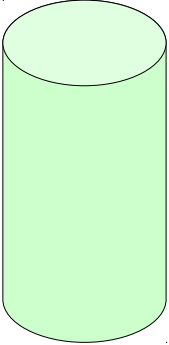
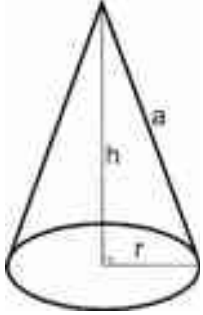
FIGURA	formule dirette	formule inverse
prisma 	$Al = \text{perimetro} \cdot h$ $A_{tot} = Al + 2Ab$ $V = Ab \cdot h$	$\text{perimetro} = \frac{Al}{h}$ $h = \frac{Al}{\text{perimetro}}$ $Ab = \frac{V}{h} \quad h = \frac{V}{Ab}$
parallelepipedo 	$Al = \text{perimetro} \cdot h$ $A_{tot} = Al + 2Ab$ $V = Ab \cdot h$	$\text{perimetro} = \frac{Al}{h}$ $h = \frac{Al}{\text{perimetro}}$ $Ab = \frac{V}{h} \quad h = \frac{V}{Ab}$
cubo 	$Al = l^2 \cdot 4$ $A_{tot} = l^2 \cdot 6$ $V = l^3$	$l = \sqrt{\frac{Al}{4}}$ $l = \sqrt{\frac{A_{tot}}{6}}$ $l = \sqrt[3]{V}$
piramide  <p style="font-size: small;">*l = spigolo di base</p>	$Al = \frac{\text{perimetro} \cdot \text{apotema}}{2}$ $A_{tot} = Ab + Al$ $V = \frac{Ab \cdot h}{3}$	$\text{perimetro} = \frac{Al \cdot 2}{\text{apotema}}$ $Ab = \frac{V \cdot 3}{h}$ $h = \frac{V \cdot 3}{Ab}$

FIGURA	formule dirette	formule inverse
cilindro 	$Al = \text{circonferenza} \cdot h$ $A_{tot} = Al + 2 \cdot Ab$ $V = Ab \cdot h$	$\text{Circonferenza} = \frac{Al}{h}$ $h = \frac{Al}{\text{circonferenza}}$ $Ab = \frac{V}{h}$ $h = \frac{V}{Ab}$
cono 	$Al = \frac{\text{circonferenza} \cdot a}{2}$ $A_{tot} = Ab + Al$ $V = \frac{Ab \cdot h}{3}$	$\text{circonferenza} = \frac{Al \cdot 2}{a}$ $a = \frac{Al \cdot 2}{\text{circonferenza}}$ $Ab = \frac{V \cdot 3}{h} \quad h = \frac{V \cdot 3}{Ab}$
peso e peso specifico unità di misura: $\frac{g}{cm^3}$; $\frac{kg}{dm^3}$ ton/m ³	$p = ps \cdot V$	$ps = \frac{p}{V}$ $V = \frac{p}{ps}$

h