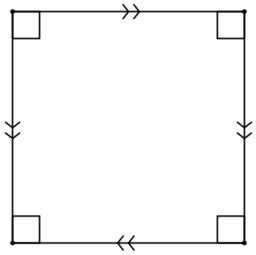
Formulaire de périmètres, aires et volumes

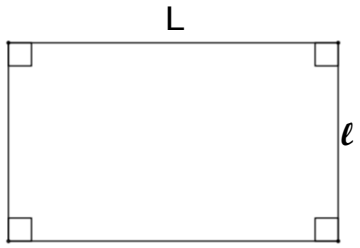
Figures Planes

Le carré



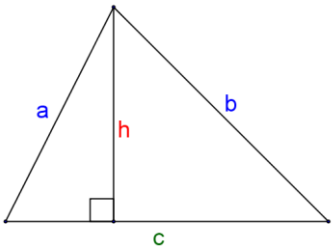
Périmètre = c × 4
Aire = c × c ou **c^2**

Le rectangle



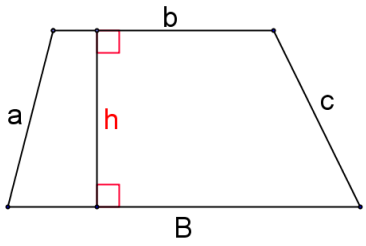
Périmètre = (L + ℓ) x 2
Aire = L × ℓ

Le triangle



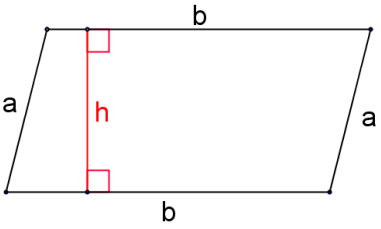
Périmètre = a + b + c
Aire = $\frac{c \times h}{2}$

Le trapèze



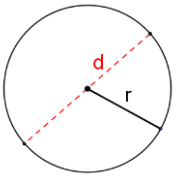
Périmètre = a + b + c + B
Aire = $\frac{(B + b) \times h}{2}$

Le parallélogramme



Périmètre = a + b + a + b
Aire = b × h

Le cercle

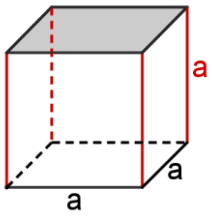


Longueur du cercle = d × π ou **r × 2 × π**

Aire du disque = r × r × π
ou **π × r^2**

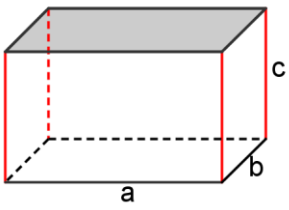
Solides

Le cube



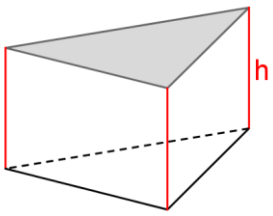
Volume = a × a × a ou **a^3**
Aire totale = 6 × a^2

Le pave droit



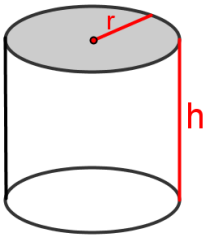
Volume = a × b × c

Le prisme



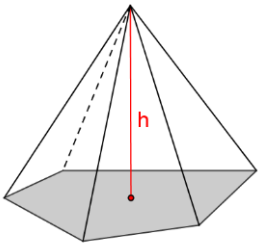
V = Aire de la base × h

Le cylindre



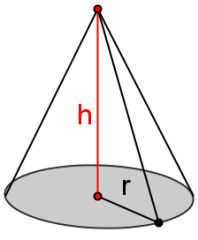
V = Aire de la base × h
soit **π × r^2 × h**
Aire latérale = 2πr x h

La pyramide



V = $\frac{\text{Aire de la base} \times h}{3}$

Le cône



V = $\frac{\text{Aire de la base} \times h}{3}$

soit $\frac{\pi \times R^2 \times h}{3}$