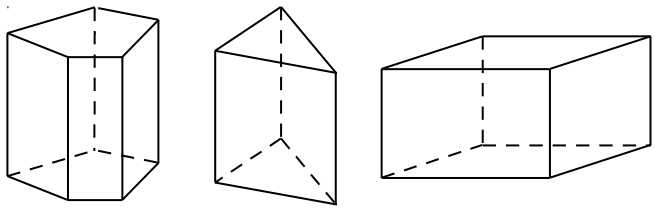
Les Volumes

I) Les formules de volume

Les Prismes droits

2 bases : polygones superposables

Des faces latérales : rectangles



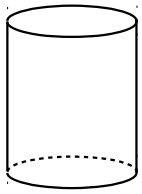
Volume : V = Aire de base x hauteur

aire(base) x h

Pour un pavé droit on peut retenir : V = L x l x h

Le cylindre de révolution

2 bases : cercles superposables



Volume : V = Aire de base x hauteur

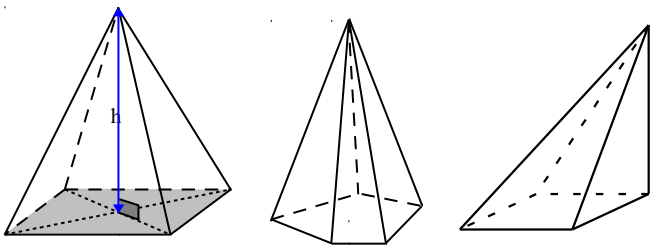
$= \pi r^2 \times h$

https://www.youtube.com/watch?v=qXC8uzy_HFw

Les Pyramides

1 base : polygone

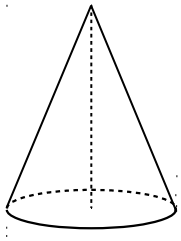
Des faces latérales : triangles



Volume : V = $\frac{Aire(base) \times hauteur}{3}$

Le cône de révolution

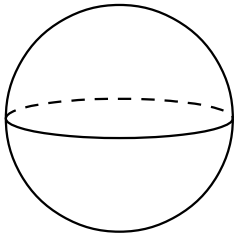
1 base : cercle



Volume : V = $\frac{Aire(base) \times hauteur}{3}$

$V = \frac{\pi r^2 \times h}{3}$

La sphère – La Boule



Volume : V = $\frac{4}{3}\pi r^3$

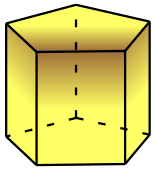
II) Conversions : unités de volumes ↔ unités de capacité

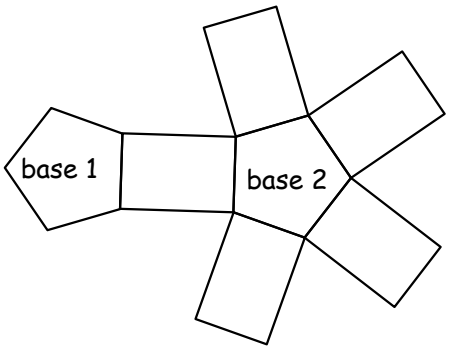
liens à retenir : ....1.. dm^3 = ..1..... L ....1.. m^3 = .1000.. L ....1... cm^3 = ..1.... mL

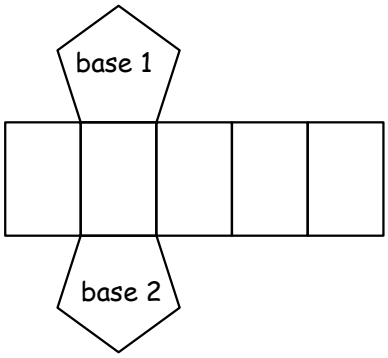
km^3	hm^3	dam^3	m^3	dm^3			cm^3		mm^3
				hL	daL	L	dL	cL	mL

III) Les patrons

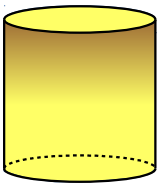
Prisme droit

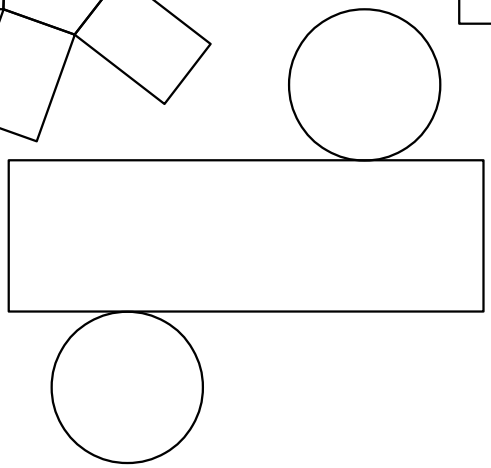




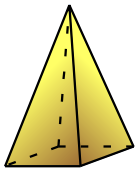


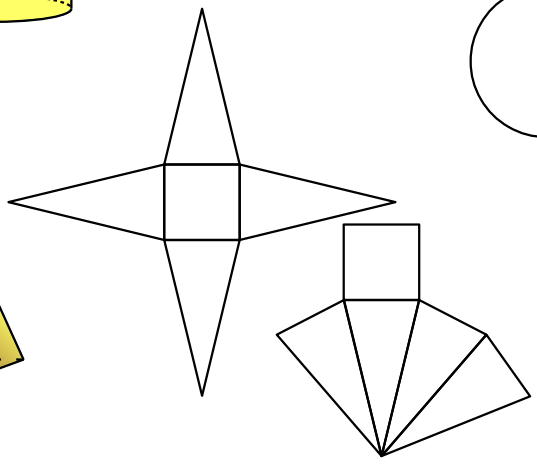
Cylindre de révolution

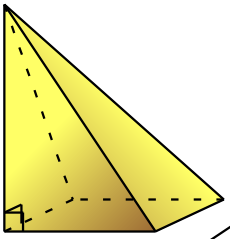


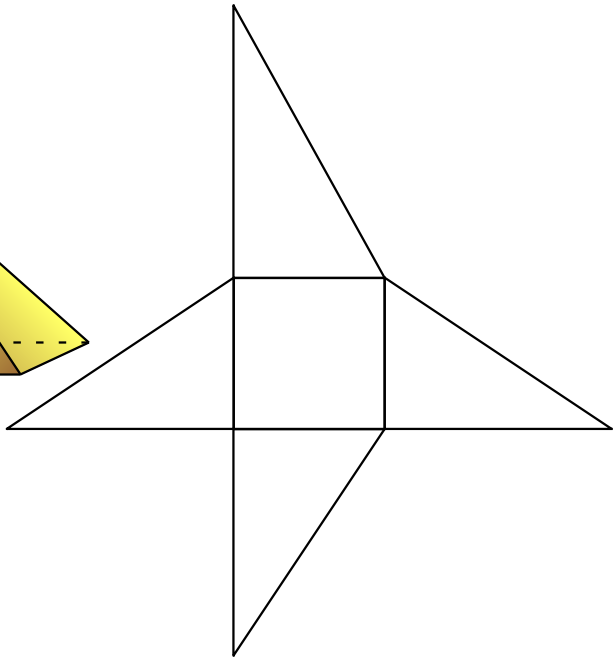


Pyramide









Cône de révolution