

MESURES ANGLO-SAXONNES

(Concordances)

LONGUEURS

Inch	=	0,0254 m
Foot	= 12 Inches	= 0,3048 m
Yard	= 3 Feet	= 0,9144 m
Mile Anglais	= 1 760 Yards	= 1 609 m
Mille Marin	= 2 026 Yards	= 1 852 m

SURFACES

Square Inch (pouce carré)	=	6,4516 cm ²
Square Foot (pied carré)	= 144 Sq. Inches	= 0,0929 m ²
Square Yard	= 9 Sq. Feet	= 0,8361 m ²
Acre	= 4 840 Sq. Yards	= 0,4047 ha
Square Mile	= 640 Acres	= 259 ha

VOLUMES

Cubic Inch	=	16,387 cm ³
Cubic Foot	= 1 728 Cubic Inches	= 0,028317 m ³
Cubic Yard	= 27 Cubic Feet	= 0,764555 m ³
Tonneau anglais shipping Ton	= 40 Cubic Feet	= 1,1327 m ³
register Ton (tonneau de jauge international)	= 100 Cubic Feet	= 2,8317 m ³

CAPACITÉ

Fluid ounce	=	29,573 cm ³
Pint	=	0,568 l
Gallon (Impérial)	= 8 Pints	= 4,546 l
Gallon Américain	=	3,785 l
Baril	= 42 Gallons	= 158,980 l

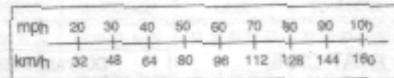
POIDS

Grain	=	0,0648 g
Ounce (oz)	=	28,35 g
Pound (Lb)	= 16 oz	= 453,59 g
Quarter (Q)	= 28 Lbs	= 12,70 kg
Hundredweight (cwt)	= 4 q. = 112 Lbs	= 50,802 kg
Ton (Long ton)	= 20 cwt = 2 240 Lbs	= 1 016 kg
Ton (Short ton)	= 2 000 Lbs	= 907 kg

DIVERS

Circular Mil	=	0,000507 mm ²
Pound per sq. in. (psi)	=	0,0703 kg/cm ²
Degrés Fahrenheit	=	9/5 °C + 32
B.T.U. (British thermal Unit)	=	0,252 kcal
Degrés Celsius	=	5/9 (F - 32)

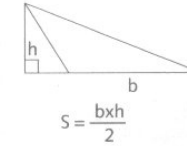
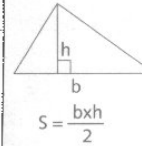
VITESSES / SPEED



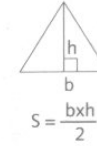
MATHÉMATIQUES

SURFACES

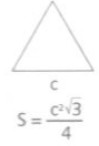
TRIANGLES QUELCONQUES



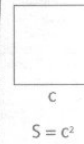
TRIANGLE ISOCÈLE



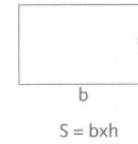
TRIANGLE ÉQUILATÉRAL



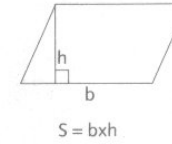
CARRÉ



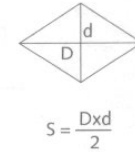
RECTANGLE



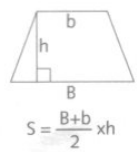
PARALLÉLOGRAMME



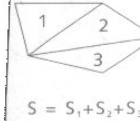
LOSANGE



TRAPÈZE



POLYGONE



PENTAGONE



HEXAGONE



HEPTAGONE



OCTOGONE



$$S = P \frac{a}{2} \quad (P : \text{périmètre}; a : \text{apothème})$$

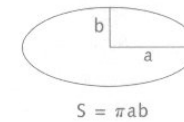
CERCLE



COURONNE



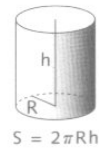
ELLIPSE



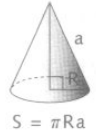
SPHÈRE



CYLINDRE

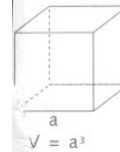


CÔNE

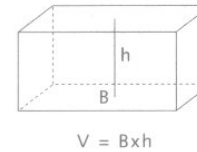


VOLUMES

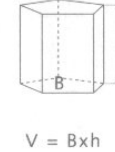
CUBE



PARALLÉPIÈDE DROIT



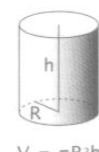
PRISME DROIT



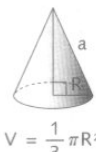
SPHÈRE



CYLINDRE



CÔNE



TRIGONOMÉTRIE

Cercle trigonométrique : cercle dont le rayon est l'unité et sur lequel un point d'origine est choisi. Le sens de parcours est choisi sur ce cercle et appelé sens trigonométrique positif ou négatif. Le sens inverse est appelé sens trigonométrique négatif.

• Relations dans un triangle rectangle :

$$\sin \alpha = \frac{AB}{BC} \quad \cos \alpha = \frac{AC}{BC} \quad \sin^2 \alpha + \cos^2 \alpha = 1$$

$$\cotg \alpha = \frac{\cos \alpha}{\sin \alpha} = \frac{1}{\tg \alpha}$$

$$\tg \alpha = \frac{AB}{AC} = \frac{\sin \alpha}{\cos \alpha}$$

