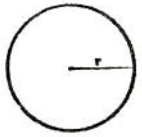
FOIRMLÍ TOMHAIS

FAID CUARANNA

Ciorcal, gath r

Fad $= 2\pi r$



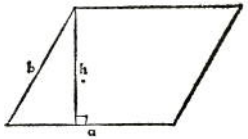
Circle, radius r

Length $= 2\pi r$

ACHAIR DROMCHLAÍ

Comhthreomharáin

Achar $= ah$



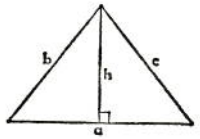
Area $= ah$

Triantáin

Achar $= \frac{1}{2}ah$

$= \sqrt{s(s-a)(s-b)(s-c)}$

áit a bhfuil $s = \frac{a+b+c}{2}$



Area $= \frac{1}{2}ah$

$= \sqrt{s(s-a)(s-b)(s-c)}$

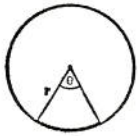
where $s = \frac{a+b+c}{2}$

MENSURATION FORMULAE

Length of curves

Stua ciorcail, gath r

Fad $= r\theta$ (θ i raidiain)



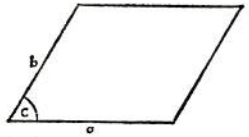
Arc of circle, radius r

Length $= r\theta$ (θ in radians)

AREAS OF SURFACES

Parallelograms

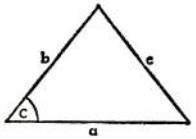
Achar $= ab \sin C$



Area $= ab \sin C$

Triangles

Achar $= \frac{1}{2}ab \sin C$

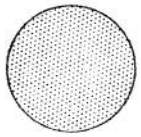


Area $= \frac{1}{2}ab \sin C$

$\pi \approx 3{\cdot}142$	$\frac{1}{\pi} \approx 0{\cdot}3183$	$\sqrt{\pi} \approx 1{\cdot}773$	$\frac{4}{3}\pi \approx 4{\cdot}189$
$\log_{10} \pi \approx 0{\cdot}4971$	$\log_{10} \frac{1}{\pi} \approx \bar{1}{\cdot}5029$	$\log_{10} \sqrt{\pi} \approx 0{\cdot}2486$	$\log_{10} \frac{4}{3}\pi \approx 0{\cdot}6221$

Diosca, gath r

Achar $= \pi r^2$

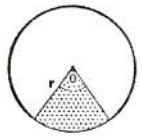


Disc, radius r

Area $= \pi r^2$

Teascóg diosca, gath r

Achar $= \frac{1}{2}r^2\theta$ (θ i raidiain)



Sector of a disc, radius r

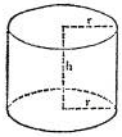
Area $= \frac{1}{2}r^2\theta$, (θ in radians)

DROMCHLAÍ AGUS TOIRTEANNA

Sorcóir, gath r

Achar an dromchla chuaraigh $= 2\pi rh$

Toirt $= \pi r^2 h$



Cylinder, radius r

Area of curved surface $= 2\pi rh$

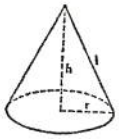
Volume $= \pi r^2 h$

SURFACES AND VOLUMES

Cón, gath r

Achar an dromchla chuaraigh $= \pi rl$

Toirt $= \frac{1}{3}\pi r^2 h$



Cone, radius r

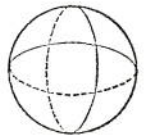
Curved surface area $= \pi rl$

Volume $= \frac{1}{3}\pi r^2 h$

Sféar, gath r

Achar an dromchla $= 4\pi r^2$

Toirt $= \frac{4}{3}\pi r^3$



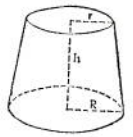
Sphere, radius r

Area of surface $= 4\pi r^2$

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

Frustam chóin

Toirt $= \frac{1}{3}\pi h(R^2+Rr+r^2)$



Frustum of a cone

Volume $= \frac{1}{3}\pi h(R^2+Rr+r^2)$