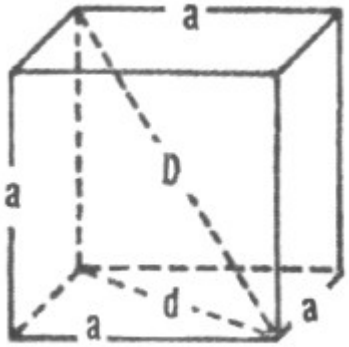
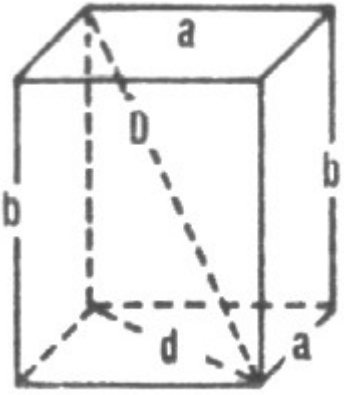
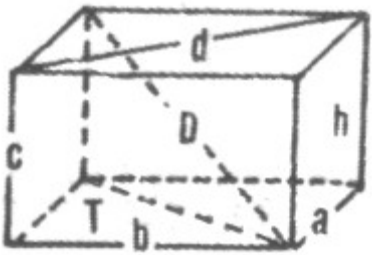
CİSİMLERİN ALAN VE HACİM HESAPLARI

Hacim (V)	Şekil	Y= Yan alan S= Alan T= Taban alanı
$V= a^3$		$Y= 4a^2$ $S= 6a^2$ $T= a^2$
	KÜP	
$V= a^2.b$		$Y= 4.a.b$ $T= a^2$ $S= 2.a^2+4.a.b$ veya $S= 2a(a+2b)$
	KARE PRİZMA	

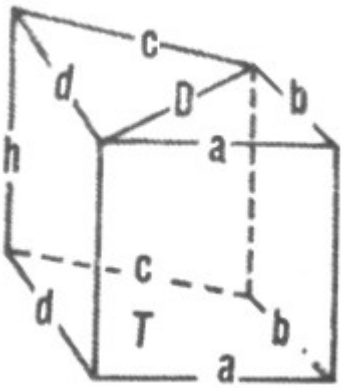
V= a.b.c



Y= 2.a.c+2.b.c
S= 2.a.b+2.a.c+2.b.c
T= a.b veya **V/h**

DİKDÖRTGEN PRİZMA

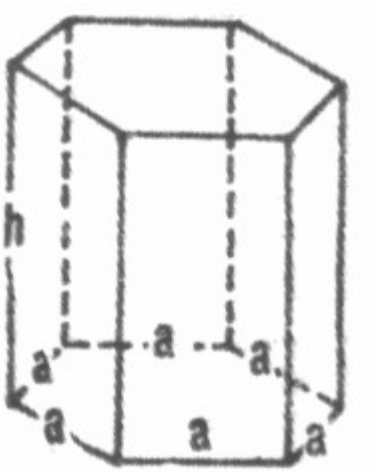
V= T.h



Y=S-2T
S=2T+Y
T=(S-Y)/2 veya **V/h**

PRİZMA

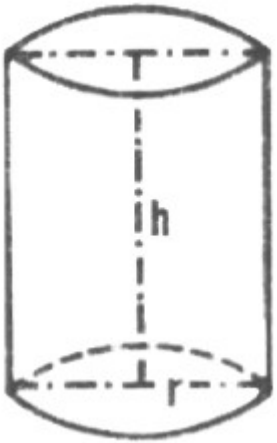
V= T.h



Y= 6.a.h
S= 2T+Y
T= 3.a².(√3)/2
veya **V/h**

ALTIGEN PRİZMA

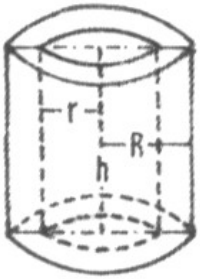
V= π.r².h



Y= 2.r.a.h
S= 2T+Y
T= π.r²

SİLİNDİR

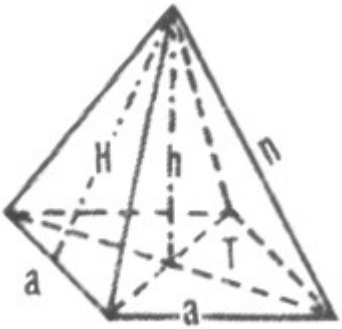
V= T.h



Y= 2.R.π.h+2.r.π.h
S= Y+2(R².π-r².π)
T= R².π-r².π

İÇİ BOŞ SİLİNDİR

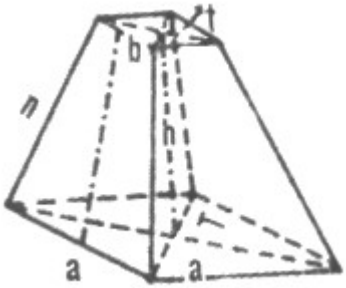
V= T.h/3



Y= 2 a.H
S= T+Y= a(a+2H)
T= a² veya **3.V/h**

PİRAMİT (KARE)

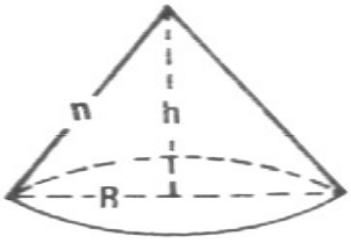
V= h/3(T+(√T^t)+t)



Y= 2(a+b).H
S= T+t+Y
T= a² t= b²

KESİK PİRAMİT

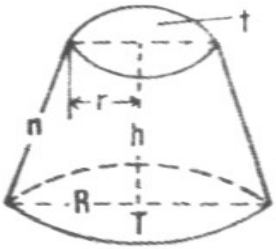
V= h.r².π/3



KONİ

Y= r.π.n
T= π.r²
S=
T+Y=r²π+r.π.n
veya **rπ(r+n)**

V= π.h/3(R²+R.r+r²)



KESİK KONİ

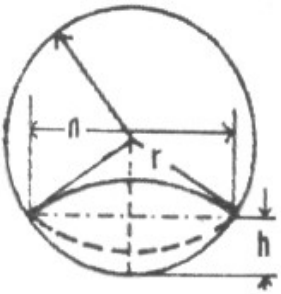
Y= π.n(R+r)
S= T+t+Y
S=
π[R²+r²+n(R+r)]
T= R².π t= r².π

V=4r²π/3

KÜRE

S= 4.π.r²
veya
d²π

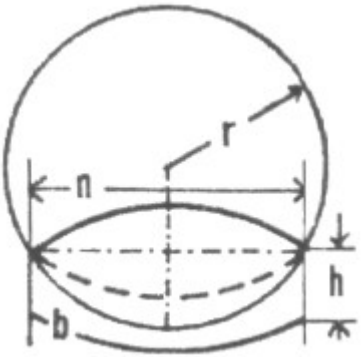
V= 2.π.r².h/3



S= (n/2)π.r+2.r.π.h

KÜRE DİLİMİ

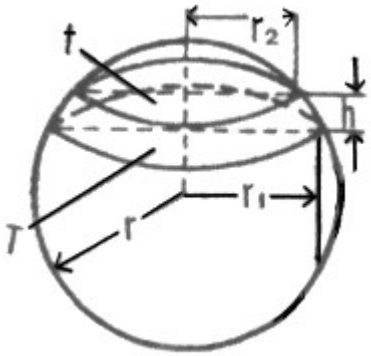
V= π.h²/3(3r-h)



S= π.h(4r-h)
veya
2π.r.h+(n/2)².π

KÜRE KESİTİ

$V=\pi.h/6(3r_1^2+3r_2^2+h^2)$



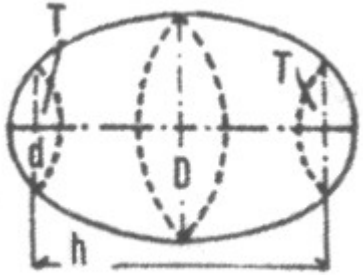
$Y= 2.r.\pi.h$

$S= T+t+Y$

$T=r_1^2.\pi \quad t=r_2^2.\pi$

KÜRE PARÇASI

$V= \pi.h/3(D^2/2+d^2/4)$



$S= 2T+Y$

FIÇI