$$
\begin{aligned}
& \text { Pizza, } \\
& \underset{\text { radius }=z}{\text { P-i }} \text { Idepth }=a \\
& \text { Volume }=\text { pi z.z-a }
\end{aligned}
$$

What is it?...
Volume is the measure of the amount of space inside of a solid figure, like a cube, ball, cylinder or pyramid. H's units are always "cubic"


# Formula for Volume of a Sphere 



$$
V_{\Theta}=\frac{2}{3} V_{\Theta} \rightarrow V_{\Theta}=\frac{4}{3} \pi r^{3} \quad V_{\Theta}=\pi^{2}
$$

## Let's start with basics....



## The different types of volumes and their formula



THIS IS A CYLINDER. ITS APART OF VOLUME TOO..... $1 T 5$ FORMULA IS SHOWW DOWN BELOW

VOLUME OF A CYLINDER:

$$
V=\pi r^{2} h
$$

where:
$V=$ volume of the cylinder
$r=$ radius of the base of the cylinder
$h=$ height of the cylinder

## Volume and formula of cone

## $r=$ radius <br> $h=$ height <br> $\mathrm{s}=$ length of slant

THIS IS A CONE IT'S ALSO APART OF VOLUME IT FORMULA IS SHOWN BELOW


Volume of cone $=\frac{1}{3} \pi p^{2} h$

## Volume of sphere and formula





## MMZG4 Stusents wi tins and compare the measuess of a schere <br> Guded Prassce <br> Finding Volumes of sphores <br> 7. Nind the volume of the xphere. Give your answer in terms of $=$ <br> $V=\frac{4}{3} \pi r^{3} \quad$ Veeme or a spheve.

5 cm


10 cm

## Examples



