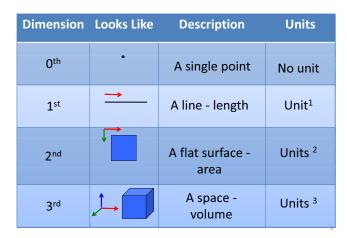
5.1 Views of solids

- Spatial sense helps us create, analyze, mentally visualize, classify and transform solids.
- Drawing 3D solids could be challenging but a lot of fun.
- Google:3D street arts.



Dimensions of Space



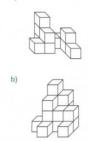
Views of a Cube (p.150 Activity 2)

epending on from wher he front view of this obj		different views of the object.	49
hat would the view of t	this object be		
) from the right?	b) from the top?	c) from the back?	

Views of a Cube (p.151 # 1)

Draw the requested views for each of the following solids.

 a) Front Right Top





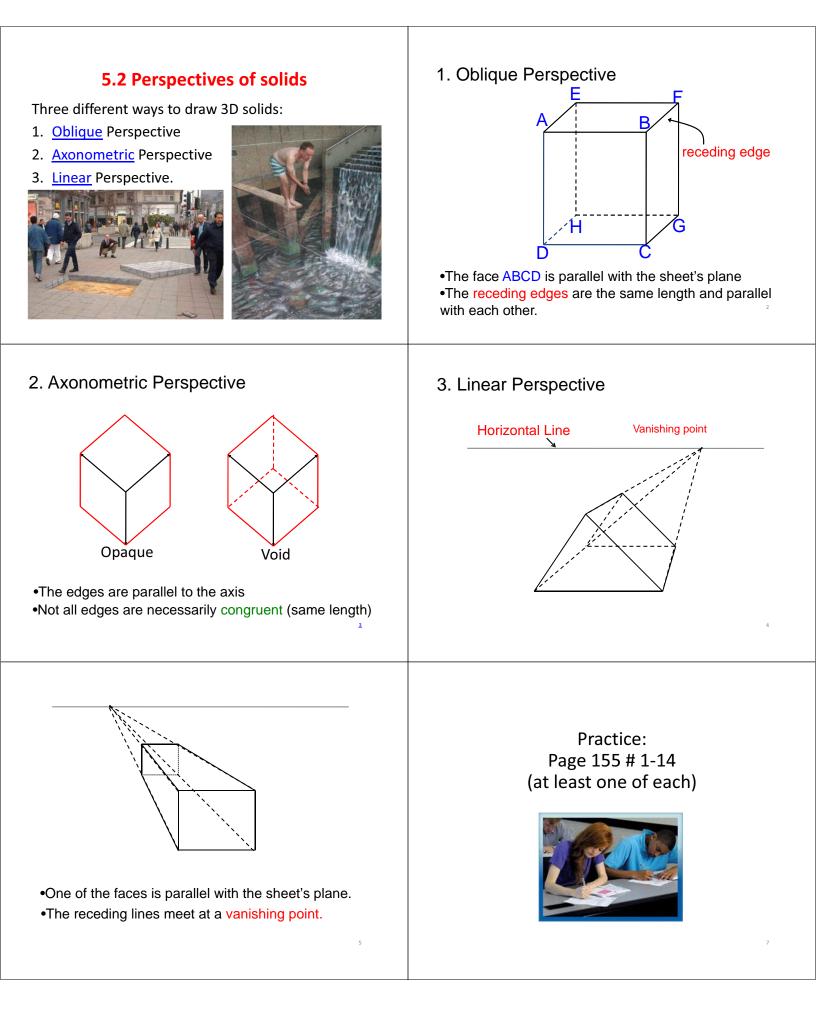
- (only for the top/bottom view)
- It indicates in each square of the base of the solid, the number of cubes stacked up vertically over it .
 - a)





Practice: Page 151 # 2-10





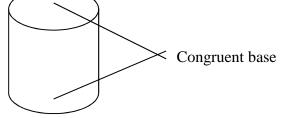
5.3 Geometric Solids

PRISMS

Formed by taking a 2D object and		it to make a 3D solid.
	\bigwedge	\sum
Square Prism	Triangular t	base Prism
Note: The prism is named after the sh	ape of the	not the
Properties of Prisms:		
- hasard - theard - theis	e perpendicular to th	e
PYRAMIDS The Pyramid is named after the shape of		tiangular pyramid (tetrahedron) square pyramid
Properties of Pyramids		
 a makes the base the Lateral Faces are the height of <u>each lateral face</u> is 		
- a pyramid is <u>right</u> when the heig		touches the base at <u>90°</u>
CYLINDERS Generated by taking a		

and dragging it to make a 3D solid;

or by rotating a _____.



Note: Cylinders can either be _____ or _____

Properties of Cylinders

- two discs with the same radius make the _____
- the radius of the base is the radius of the _____
- the height is the distance between the _____

It is a curved solid that ends at an .

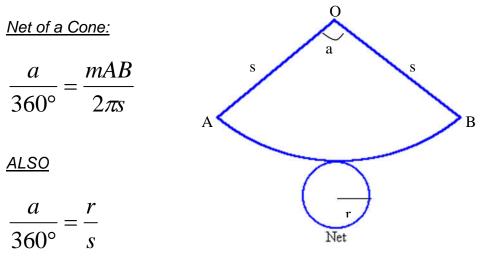
CONES

Generated by rotating a ______ around one of its legs. 0

Properties of Cones

- May or may not have a _____ -
- Curved surface is called
- The ______ is on the lateral surface
- The ______ is the perpendicular distance from apex to base

Note: We can use **Pythagorean Theorem** to figure out the radius, height or slant height. $s^2 = h^2 + r^2$



<u>SPHERES</u>

Generated by rotating a _____ around its diameter. All points on its surface are equidistant from the centre.

h

Properties of Sphere

- any segment joining the centre of the sphere to the surface is called the ______. _
- Any segment that connects 2 points on the surface of the sphere AND goes through the centre is the _____.