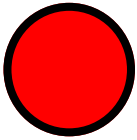


# Geometry Study Guide

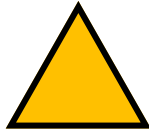
SOL 3.14 & 3.15

**Plane Figures:** Two-dimensional shapes (circle, square, rectangle, triangle)



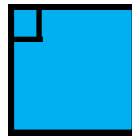
**Circle**

A circle has 0 sides and 0 angles.



**Triangle**

A triangle has 3 sides and 3 angles.



**Square**

A square has 4 equal sides and 4 right angles.











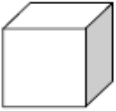










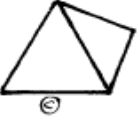


**Rectangle**

A rectangle has 4 sides and 4 right angles.




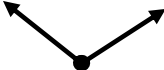

**Solid Figures:** Three-dimensional shapes made up of faces, edges, and vertices

- \* **Faces:** A plane figure (flat shape) that is one side of a three-dimensional figure.
- \* **Edges:** Where 2 faces meet on a three-dimensional figure.
- \* **Vertices:** A sharp point where edges meet on a three-dimensional figure.

## Examples of Solid Figures

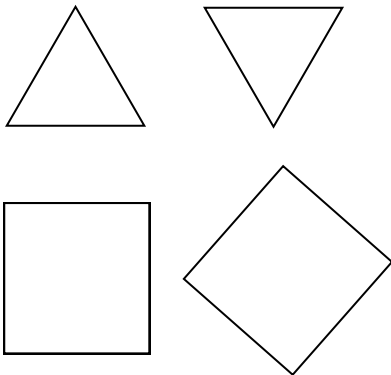
Shape	Characteristics	Real Life Examples
Sphere 	0 faces, edges or vertices.	  
Cylinder 	2 circle faces, 0 edges and 0 vertices	  
Cube 	6 square faces, 8 edges and 12 vertices	  
Cone 	1 circle face, 0 edges, 0 vertices	  
Rectangular Prism 	6 square faces, 8 edges, and 12 vertices	 
Pyramid 	1 square face and 4 triangle faces, 8 edges, and 5 vertices	 

## Lines and Angles

Line		A straight path that goes on without end in both directions.
Line Segment		A part of a line that has two endpoints.
Ray		A straight path that has one endpoint and goes on without
Angle		An angle is 2 rays that share an endpoint.
Point		An exact location.

### Congruent Figures

Congruent figures are shapes that are the **same shape and the same size.**



### Noncongruent Figures

Noncongruent figures are shapes that are the **same shape but different sizes.**

