

An Overview of the Fundamental Geometric * All in One * Names, Shapes, Properties * Page (1)

***** Grouping (Classify) & Order (Categorize) is Very Important for Learning *****

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(Lines)

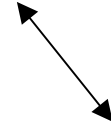
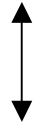
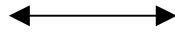
Horizontal

Vertical

Oblique (+)

Oblique (-)

One Sided
Straight
Infinite

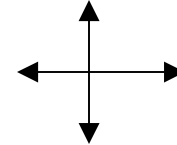
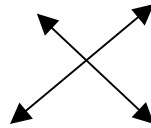
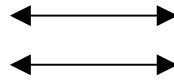


Parallel

Intersecting

Perpendicular

Never Touch
Touch Once
Cross @ 90°



(Angles)

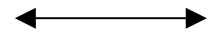
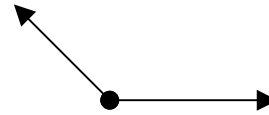
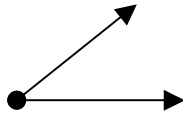
Acute \angle

Right \angle

Obtuse \angle

Straight \angle

Two Sided
 $>0^\circ$ & $<180^\circ$
Connected Rays

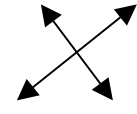
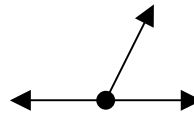
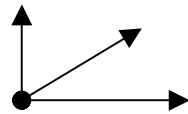


Complementary \angle s

Supplementary \angle s

Vertical \angle s

$A1+A2=90^\circ$
 $A1+A2=180^\circ$
 $A1=A2$ $A3=A4$



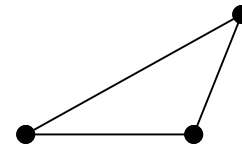
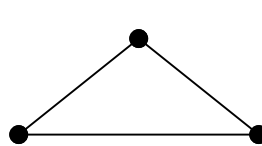
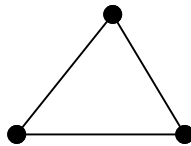
(Triangles)

Equilateral

Isosceles

Scalene

Three Sided
Closed
 $A+B+C = 180^\circ$

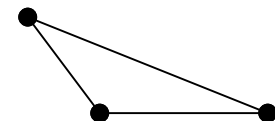
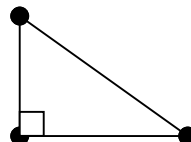
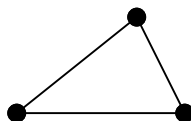


Acute

Right

Obtuse

All Angles $<90^\circ$
One Angle $=90^\circ$
One Angle $>90^\circ$



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(Quadrilaterals)

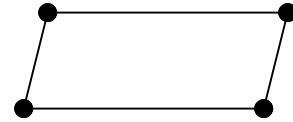
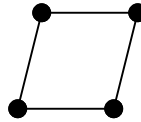
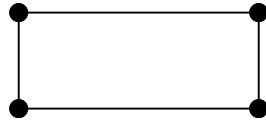
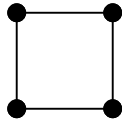
Square

Rectangle

Rhombus

Rhomboid

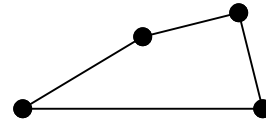
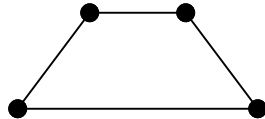
Four Sides/Closed
Opposite Sides "P"
 $A+B+C+D=360^0$



Trapezoid

Trapezium

Four Sides/Closed
Opposite Sides "P"
 $A+B+C+D=360^0$



(Polygons)

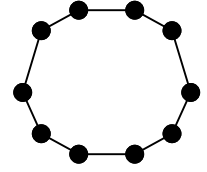
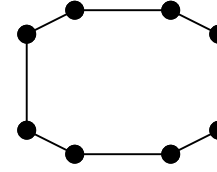
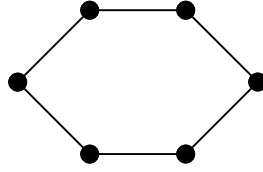
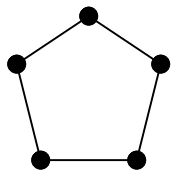
Pentagon

Hexagon

Octagon

Decagon

Many Sides
Closed
 $\text{SumAngles} = N \times 180^0$



(Circles)

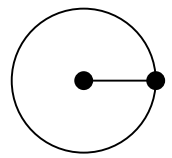
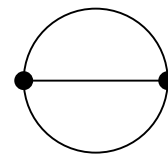
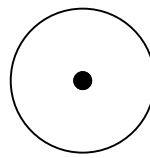
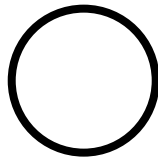
Circumference

Center

Diameter

Radius

Infinite Sided
Closed
 $C = 360^0$
 $D = 2 \times R$ & $C = \pi \times D$



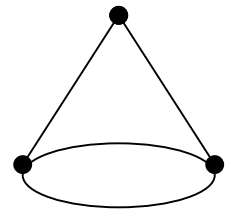
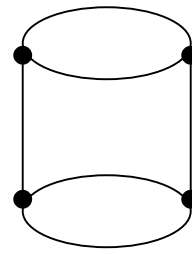
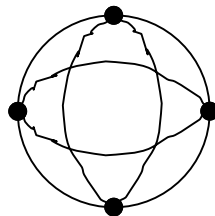
(Circular Solids)

Sphere

Cylinder

Cone

3D Object
Rounded (Smooth) Sides
Infinite Sided
Surface Area & Volume



(Lateral Solids)

Cube

Prism

Pyramid

3D image
Lateral (Flat) Sides
Faces, Edges, Vertices
Surface Area & Volume

