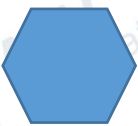
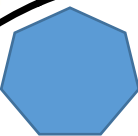


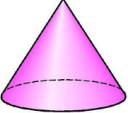
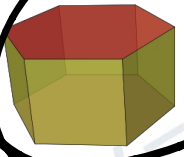
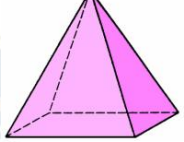
Geometry Summary

2-D shapes

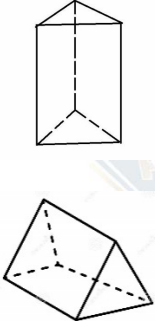
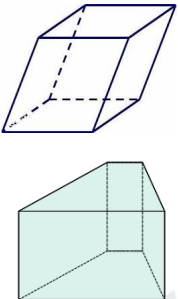
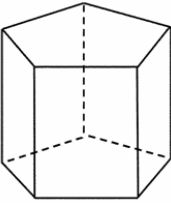
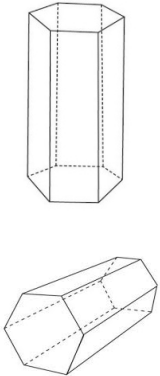
	Triangle	3 sides	3 corners
	Rectangle	4 sides	4 corners
	Square	4 equal sides	4 corners
	Pentagon	5 sides	5 corners
	Hexagon	6 sides	6 corners
	Heptagon	7 sides	7 corners
	Octagon	8 sides	8 corners
	Nonagon (optional)	9 sides	9 corners
	Decagon (optional)	10 sides	10 corners
	Circle	1 side	No corner

	Oval	1 side	No corner
	Trapezoid	4 sides	4 corners

3-D shapes

	Cylinder	2 edges	No corner	3 faces
	Cube	12 edges	8 corners	6 faces
	Cuboid	12 edges	8 corners	6 faces
	Cone	1 edges	1 corners	2 faces
	Sphere	No edge	No corner	1 face
	Prism	Depend on the base	Depend on the base	Depend on the base
	Pyramid	Depend on the base	Depend on the base	Depend on the base

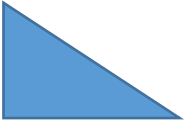
Prism

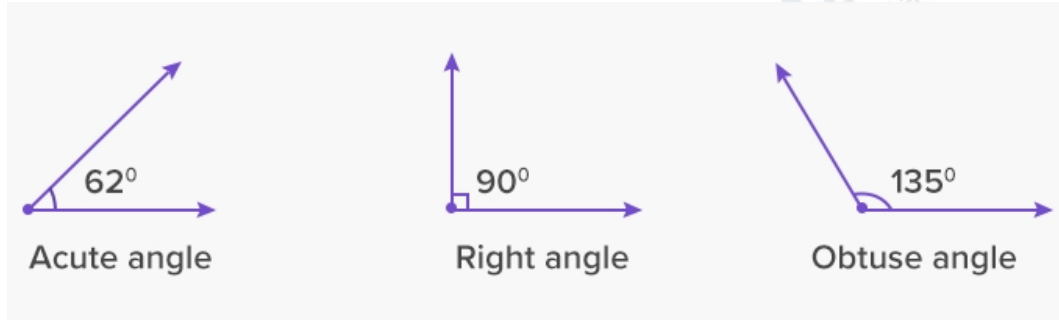
	Triangular prism	三棱柱	6 edges	5 faces	6 vertexes
	Quadrangular prism	四棱柱	8 edges	6 faces	8 vertexes
	Pentagonal prism	五棱柱	10 edges	7 faces	10 vertexes
	Hexagonal prism	六棱柱	12 edges	8 faces	12 vertexes

Pyramid

	Triangular pyramid	三棱 锥	6 edges	4 faces	4 vertexes
	Quadrangular pyramid	四棱 锥	8 edges	5 faces	5 vertexes
	Pentagonal pyramid	五棱 锥	10 edges	6 faces	6 vertexes

Triangle

	Isosceles triangle	等腰三角形
	Equilateral/Regular triangle	等边三角形
	Right angle triangle	直角三角形
$0^\circ < \text{Acute angle} < 90^\circ$		锐角
Right angle = 90°		直角
$90^\circ < \text{Obtuse angle} < 180^\circ$		钝角
Flat angle/straight angle = 180°		平角
$180^\circ < \text{Reflex angle} < 360^\circ$		反角
Revolution = 360°		周角



2-D

Square	正方形
Rectangle (oblong)	长方形
Triangle	三角形
Parallelogram	平行四边形

Isosceles triangle	等腰三角形
Regular triangle/equilateral triangle	正三角形/等边三角形
Scalene	不等边三角形
Circle	圆形
Oval	椭圆形
Quadrilateral	四边形
Polygon	多边形
Pentagon	五边形
Hexagon	六边形
Heptagon	七边形
Octagon	八边形
Side (edge)	边
Straight line	直线
Curved line	曲线
Corner (vertex)	顶点（角）
Flat	平面
Right angle	直角
Acute angle	锐角
Obtuse angle	钝角
Symmetry (symmetrical)	对称（对称的）
Line of symmetry	对称线

Perpendicular	垂直
Parallel	平行
Complementary angle	余角
Supplementary angle	补角
Corresponding angle	同位角
Alternate angle	内错角
Co-interior angle	同旁内角

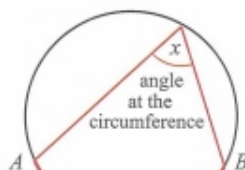
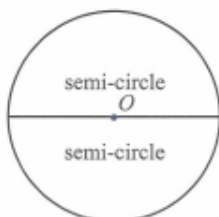
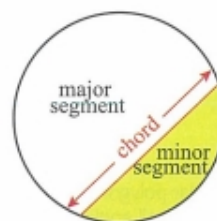
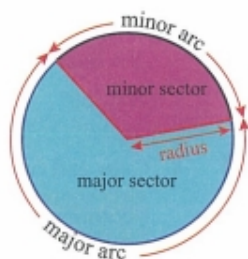
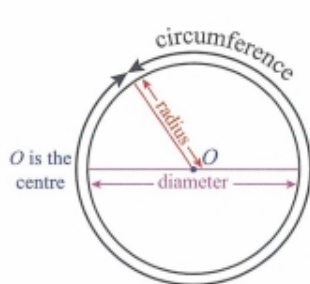
3-D

polyhedron	多面体
Cube	正方体
Cuboid	立方体/长方体
Cylinder	圆柱体
Cone	圆锥体
Sphere	球体
Prism	棱柱体
Pyramid (square based)	金字塔/角锥体/棱锥体 (通常题目里的图形是以正方形为底面)
Base	底面
Side	侧面
Edge	棱
Corner (vertex)	顶点

Face	面
Surface	表面
Curved surface	弯曲的表面

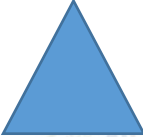
Circle

Radius	半径
Diameter	直径
Circumference	周长
Area	面积
Chord	弦
Sector	扇形
Segment	弓形
Arc	弧
Semi-circle	半圆形

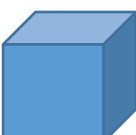


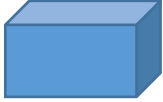
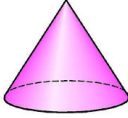
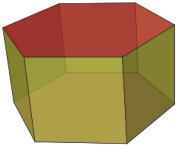
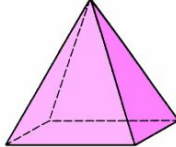
AB is a minor arc and angle x is subtended by arc AB

2-D Shapes Formula Summary

	Shape	Perimeter/Circumference	Area
	Triangle		
	Square		
	Rectangle		
	Trapezoid		
	Circle		
	Sector		

3-D Solids Formula Summary

	Solids	Surface area	Volume
	Cylinder		
	Cube		

	Cuboid		
	Cone		
	Sphere		
	Prism		
	Pyramid		