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Geometry formulas for ssc cgl

Geometry is the branch of mathematics in which we study different kinds of figures (dimensionless, one dimensional and two dimensional) and their properties. A point is an exact location on a plane surface. Questions related to Geometry judge the visual ability along with the analytical skill of a candidate. In this article, we are going to cover the key concepts of Geometry along with the various types of questions, and tips and tricks. We have also added a few solved examples, which candidates will find beneficial in their exam preparation. Read the article thoroughly to clear all the doubts regarding the same. Branches of GeometryHave a look at some branches of Geometry which are mentioned below for your reference.**Algebraic Geometry** - It is a branch of geometry which includes linear & polynomial algebraic equations that are used for solving the sets of zeros. Some of the applications under this segment include string theory, cryptography and more.**Discrete Geometry or Combinatorial Geometry** - It is something which relates to the study of the geometric objects which are discrete by nature such as lines, triangles, points, circles etc.**Differential Geometry** - It is related to general relativity in Physics and uses algebra techniques and calculus for solving problems.**Euclidean Geometry** - The branch includes the study of solid & plane figures based on axioms and theorems including solid figures, similarity, angles, points, planes, lines, congruence etc. It has huge applications in Modern Mathematics, Computer Science, Crystallography etc.**Topology** - It deals with the properties of space under continuous mapping. It has applications in various fields such as metric spaces, initial & final structure, continuity, proximal continuity, proximal spaces etc.**Convex Geometry** - This includes techniques of real analysis for convex shapes and has applications in functional analysis in number theory and optimization.**Geometry Formulas For 2D & 3D Shapes**Let's look at the table of formulas for geometry for different shapes. You can also download geometry formulas chart in PDF format below:**Geometry FormulasShapeFormulasFiguresTrianglePerimeter**, $P = a + b + c$ **Area**, $A = \frac{1}{2}bh$ **Height**, $h = \frac{2(A/b)}$ **Right TrianglePythagoras Theorem**: $a^2 + b^2 = c^2$ **Area** = $\frac{1}{2}ab$ **Perimeter** = $a + b + \sqrt{a^2 + b^2}$ **CircleCircumference** = $2\pi r$ **Area** = πr^2 **Diameter** = $2r$ **RectanglePerimeter** = $2(l + w)$ **Area** = lw **Diagonal**, $d = \sqrt{l^2 + w^2}$ **ParallelogramPerimeter**, $P = 2(a + b)$ **Area**, $A = bh$ **Height**, $h = A/b$ **Base**, $b = A/h$ **SquarePerimeter**, $P = 4a$ **Area**, $A = a^2$ **Diagonal**, $d = a\sqrt{2}$ **Side**, $a = \frac{d}{\sqrt{2}}$ **TrapeziumArea**, $A = \frac{1}{2}(a + b)h$ **Height**, $h = \frac{2A}{(a + b)}$ **Base**, $b = \frac{2(A/l) - a}{1}$ **ArcArc Length**, $L = r\theta$ **Area**, $A = \frac{1}{2}r^2\theta$ **Here**, θ is the central angle of the radians.**CubeArea**, $A = 6a^2$ **Volume**, $V = a^3$ **Edge**, $a = \sqrt[3]{V}$ **Space diagonal** = $a\sqrt{3}$ **CuboidSurface Area**, $A = 2(lb + bh + hl)$ **Volume**, $V = lbh$ **Space diagonal**, $d = \sqrt{l^2 + b^2 + h^2}$ **ConeTotal Surface Area**, $A = \pi r(r + l) = \pi r(\sqrt{r^2 + h^2} + r)$ **Curved Surface Area**, $Ac = \pi rl$ **Volume**, $V = \frac{1}{3}\pi r^2h$ **Slant Height**, $l = \sqrt{h^2 + r^2}$ **Base Area**, $Ab = \pi r^2$ **CylinderTotal Surface Area**, $A = 2\pi rh + 2\pi r^2$ **Curved Surface Area**, $Ac = 2\pi rh$ **Volume**, $V = \pi r^2h$ **Base Area**, $Ab = \pi r^2$ **Radius**, $r = \sqrt{(V/\pi h)}$ **SphereSurface Area**, $A = 4\pi r^2$ **Volume**, $V = \frac{4}{3}\pi r^3$ **Diameter** = $2r$ **Line and Types of Line in Geometry**In geometry, the notion of line or straight line was introduced by ancient mathematicians to represent straight objects with negligible width and depth. Lines are an idealization of such objects, which are often described in terms of two points or referred to using a single letter. Lines can be categorized into following types. **Straight Line**A figure formed by joining two or more collinear points is called a straight line.The length of the straight line is not finite.**Line Segment** When we join two fixed points by a straight line, then the figure so formed is called a line segment.The length of line segment is finite i.e. Can be measured.**Ray**A straight line originating from one point is called a ray. **Intersecting Lines** When two straight lines meet at a point then these lines are called intersecting lines.Here, AB and CD are intersecting lines and o is called the point of intersection of these lines.**Transversal Lines** A line is said to be transversal if it intersects two or more lines.Here, N is a transversal line.**Parallel Lines** Two or more lines are said to be parallel lines if they do not intersect each other.Here, L and M are parallel lines. **Perpendicular Lines** Two lines are said to be perpendicular lines if the angle between them is 90°.Here, AB and CD are perpendicular lines.**Concurrent Lines**Two or more lines are said to be concurrent if they all pass through a fixed point.Here, L, M and N are concurrent lines.**Angles and Types of Angles in Geometry**When two rays originate from a fixed point, then the amount of rotation from one ray to another ray is called angle between the rays or angle between lines.The rays are called arms of angle.**Acute Angle**An angle whose measurement is in between 0° to 90° is called acute angle.Here, 0°

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