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Geometry formulas are used for finding dimensions, perimeter, area, surface area, volume, etc. of the geometric shapes. Geometry is a part of mathematics that deals with the relationships of points, lines, angles, surfaces, solids measurement, and properties. There are two types of geometry: 2D or plane geometry and 3D or solid geometry. The 2D shapes are flat shapes that have only two dimensions, length, and width as in squares, circles, and triangles, etc. The 3D objects are solid objects, that have three dimensions, length, width, and height or depth, as in a cube, cuboid, sphere, cylinder, cone. Let us learn geometry formulas along with a few solved examples in the upcoming sections. What Are Geometry Formulas? The formulas used for finding dimensions, perimeter, area, surface area, volume, etc. of 2D and 3D geometric shapes are known as geometry formulas. 2D shapes consist of flat shapes like squares, circles, and triangles, etc., and cube, cuboid, sphere, cylinder, cone, etc are some examples of 3D shapes. The basic geometry formulas are given as: List of Geometry Formulas Below is the list of various geometry formulas for you according to the geometric shape. Basic geometry formulas where the mathematical constant pi is used are, where, r = Radius; h = Height. and, l = Slant height The formula table depicts the geometry formulas used for different 2-D and 3-D shapes: SHAPES FORMULAS 1. Right Triangle Pythagoras Theorem: $a^2 + b^2 = c^2$ Area = $\frac{1}{2} ab$ Perimeter = $a + b + \sqrt{a^2 + b^2}$ Where, c = hypotenuse of a triangle a = altitude of a triangle b = base of a triangle 2. Triangle Perimeter, $P = a + b + c$ Area, $A = \frac{1}{2} bh$ Height, h = $2(A/b)$ Where, a,b,c are the sides of a triangle. 3. Rectangle Perimeter = $2(l + w)$ Area = lw Diagonal, $d = \sqrt{l^2 + w^2}$ Where, l = length of a rectangle w = width of a rectangle 4.Parallelogram Perimeter, $P = 2(a + b)$ Area, $A = bh$ Height, h = A/b Base, b = A/h Where, a and b are the sides of a parallelogram h = height of a parallelogram 5. Trapezium Area, $A = \frac{1}{2}(a + b)h$ Height, h = $2A/(a + b)$ Base, b = $2(A/h) - a$ Where, a and b are the parallel sides h = distance between two parallel sides 6. Circle Circumference = $2\pi r$ Area = πr^2 Diameter = $2r$ Where, r = radius of a circle 7. Square Perimeter, $P = 4a$ Area, $A = a^2$ Diagonal, $d = a\sqrt{2}$ Side, a = \sqrt{A} $d/2\sqrt{2}$ Where, a = side of a square 8. Arc Arc Length, $L = r\theta$ Area, $A = \frac{1}{2}r^2\theta$ Here, θ is the central angle in radians. Where, r = radius 9. Cube Area, $A = 6a^2$ Volume, $V = a^3$ Edge, a = $\sqrt[3]{V}$ Space diagonal = $a\sqrt{3}$ Where, a = side of a cube 10. Cuboid Surface Area, $A = 2(lb + bh + hl)$ Volume, $V = lbh$ Space diagonal, $d = \sqrt{l^2 + b^2 + h^2}$ Where, l= length b= breadth h= height 11. Cylinder Total 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 = $\sqrt{V/\pi h}$ Where, r= radius of a cylinder h= height of a cylinder 12. Cone Total Surface Area, $A = \pi r(r+l) = \pi r[\sqrt{h^2+r^2}]$ Curved Surface Area, $Ac = \pi rl$ Volume, $V = \frac{1}{3}\pi r^2h$ Slant Height, l = $\sqrt{h^2+r^2}$ Base Area, $Ab = \pi r^2$ Where, r= radius of a cone h= height of a cone l = slant height 13. Sphere Surface Area, $A = 4\pi r^2$ Volume, $V = \frac{4}{3}\pi r^3$ Diameter = $2r$ Where, r= radius of a sphere Great learning in high school using simple cues indulging in rote learning, you are likely to forget concepts. With Cuemath, you will learn visually and be surprised by the outcomes. Book a Free Trial Class Let's have a look at solved examples to understand geometry formulas better. Solved Examples Using Geometry Formulas Example 1: Calculate the circumference and the area and of a circle by using geometry formulas if the radius of the circle is 21 units? Solution: To find the area and the circumference of the circle: Given: Radius of a circle = 21 units Using geometry formulas for circle, Area of circle = $\pi r^2 = 3.142857 \times 21^2 = 1385.44$ Now for the circumference of the circle, Using geometry formulas for circle, Circumference of a Circle = $2\pi r = 2(3.142857)(21) = 131.95$ Answer: The area of a circle is 1385.44 sq. units and the circumference of a circle is 131.95 units. Example 2: What is the area of a rectangular park whose length and breadth are 60m and 90m respectively? Solution: To find the area of a rectangular park: Given: Length of the park = 60m The breadth of the park = 90m Using geometry formulas for rectangle, Area of Rectangle = (Length \times Breadth) = $(60 \times 90) m^2 = 5400 m^2$ Answer: The area of the rectangular park is 5400 m2. Example 3: Using geometry formulas of the cube, calculate the surface area and volume of a cube whose edge is 6 units respectively? Solution: To Find: The surface area and volume of a cube whose edge is 6 units Using geometry formulas of cube, Surface area of cube is = $A = 6a^2$ $A = 6(6)^2 = 6(36) = 216$ units2 Volume of a cube, $V = a^3$ $V = 6^3 = 216$ units3 Answer: The surface area of the cube is 216 units2. The volume of the cube is 216 units3 The geometry formulas of a cuboid are listed below: Where, l= length b= breadth h= height What Are the Geometry Formulas of a Rectangle? The geometry formulas of a rectangle are listed below: Perimeter of a rectangle = $2(l + w)$ Area of rectangle = lw Diagonal of a rectangle, $d = \sqrt{l^2 + w^2}$ Where, l = length of a rectangle w = width of a rectangle What Are the Geometry Formulas of a Cone? The geometry formulas of a cone are listed below: Total surface area of cone, $A = \pi r(r+l) = \pi r[\sqrt{h^2+r^2}]$ Curved surface area of cone, $Ac = \pi rl$ Volume of cone, $V = \frac{1}{3}\pi r^2h$ Slant Height of cone, l = $\sqrt{h^2+r^2}$ Base Area, $Ab = \pi r^2$ Where, r= radius of a cone h= height of a cone l = slant height What Are the Geometry Formulas of a Circle? The geometry formulas of a circle are listed below: Circumference = $2\pi r$ Area = πr^2 Diameter = $2r$ Where, r = radius of a circle What Are the Geometric Formulas of a Sphere? The two important geometry formulas of a sphere are the area and volume of a sphere. The surface area of a sphere is $A = 4\pi r^2$ and the volume of the sphere is $V = \frac{4}{3}\pi r^3$. What Are the Applications of Geometry Formulas? Geometry formulas are useful to find the perimeter, area, volume, and surface areas of two-dimensional and 3D Geometry figures. In our day-to-day life there are numerous objects which resemble geometric figures and the areas and volumes of these geometric figures can be calculated using these geometric formulas. {"appState":{"pageLoadApiCallsStatus":true},"articleState":{"article":{"headers":{"creationTime":"2016-03-26T21:21:07+00:00","modifiedTime":"2016-03-26T21:21:07+00:00","timestamp":"2022-06-22T19:28:09+00:00"},"data":{"breadcrumbs":[{"name":"Academics & The Arts","links":{"self":" "},"slug":"academics-the-arts","categoryId":33662},"name":"Math","links":{"self":" "},"slug":"math","categoryId":33720},"name":"Algebra","links":{"self":" "},"slug":"algebra","categoryId":33721},"title":"Formulas for Common Geometric Shapes","strippedTitle":"formulas for common geometric shapes","slug":"formulas-for-common-geometric-shapes","canonicalUrl":"","seo":{"metaDescription":"","depending on the algebra problem, you'll need to know some geometry. The following represents some of the most common shapes in geometry and their formulas for "noIndex":0,"noFollow":0},"content":"","depending on the algebra problem, you'll need to know some geometry. The following represents some of the most common shapes in geometry and their formulas for perimeter, area, volume, surface areas, and circumference: Two-Dimensional Shapes Shape Perimeter/Circumference AreaRectangleP = 2(l + w)A = lwSquareP = 4sA = s2TriangleP = a + b + cA = 1/2bhTrapezoidP = a + b1 + c + b2A = 1/2h(b1 + b2)Isosceles TrapezoidP = 2w + b1 + b2A = 1/2h(b1 + b2)CircleC = nd = 2 pi rA = pi r2 Three-Dimensional Shapes Shape Surface Area VolumeBoxSA = 2lw + 2lh + 2whV = lwhSphereSA = 4 pi r2V = 4/3 pi r3CylinderSA = 2 pi r(r + h)V = pi r2h,"blurb":"","authors":{"authorId":8985,"name":"Mary Jane Sterling","slug":"mary-jane-sterling","description":"\t Mary Jane Sterling is the author of numerous For Dummies books. She has been teaching at Bradley University in Peoria, Illinois, for more than 25 years. 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He is the author of Basic Math & Pre-Algebra For Dummies, ACT Math For Dummies, Logic For Dummies, and Calculus II For Dummies. In his spare time, he enjoys traveling and learning foreign languages. 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