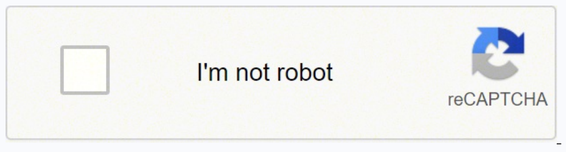

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Basic volume formulas pdf free download

The volume formula is a mathematical expression used to find the total space (vacuum) occupied by any three-dimensional object. Let us understand in detail about volume formulas of different 3-D shapes. What Is Volume Formula? The formula used to calculate the total cubic capacity that an object can hold is its volume formula. The unit of volume of a 3-d shape is expressed as units3 or cubic units. Look at the volume formulas chart below depicting the volume formulas of respective 3-D shapes. Let us learn about the general volume formulas of various shapes in detail. Volume Formulas of 3-D Shapes We now know that the volume formula is used to calculate the volume of a three-dimensional object. In this section, we will learn about the volume formulas with respective dimensions of different 3-D shapes. Volume Formula of Cube The volume formula of a cube depends upon the three sides of a cube where all three sides are equal in measure. The volume of a cube is the quantity occupied by the cube. The general formula of the volume of a cube is given as: The volume of a cube = a × a × a = a3 cubic units, where 'a' is the length of the side of the cube. The volume of a cube formula using diagonal can be given as V = (√3×d3)/9, where d is the length of the diagonal of the cube. Volume Formula of Cuboid To calculate the amount of space enclosed by the cuboid, we use the volume of a cuboid formula. The general formula of the volume of a cuboid is mathematically expressed as: The volume of cuboid = Base Area × Height cubic units The base area for cuboid = l × b square units Hence, the volume of a cuboid, V = l × b × h = lbh units3, where 'l' 'b' and 'h' represent the length, breadth, and height of the cuboid. Volume Formula of Cone To calculate the amount of space occupied within a 3-D shape cone that has a circular base with a radius 'r' and height 'h' we use the volume formula of a cone. The general volume formula of the cone is expressed as: The volume of a cone, V = (1/3)πr2h cubic units. Here, 'r' is the radius of the base (circle) of the cone 'h' is the height of the cone π is a constant with the value either 22/7 (or) 3.142. Volume Formula of Cylinder The volume formula of the cylinder is used to determine the amount of space (capacity) occupied inside it. We know that the base of a right circular cylinder is a circle and the area of a circle of radius 'r' is πr2. Thus, the volume of a cylinder formula is, The volume of a cylinder = πr2h cubic units Here, 'r' is the radius of the base (circle) of the cylinder 'h' is the height of the cylinder π is a constant whose value is either 22/7 (or) 3.142. Thus, the volume of a cylinder directly proportional to its height and to the square of its radius. i.e., the volume of the cylinder becomes four times, if the radius of the cylinder is double. Volume Formula of Sphere A football is a perfect example that resembles a shape of a sphere. It is a three-dimensional solid object with a round structure. The amount of air that is filled in a ball is termed as the volume of a sphere or a ball. The volume formula of the sphere is given as: The volume of sphere = (2/3)πr2h If the diameter of the sphere = 2r Hence, volume of sphere is (2/3)πr2h = (2/3)πr2(2r) = (4/3)πr3 cubic units The volume of a sphere is (4/3)πr3 cubic units Here, 'r' is the radius of the sphere 'h' is the height of the sphere π is a constant whose value is either 3.142 or 22/7. Volume Formula of Hemisphere Hemisphere is half of a sphere, we can easily derive the volume formula of the hemisphere by using the volume formula of the sphere. Now considering that the radius of a sphere is 'r' units and the volume of the sphere is (4/3)πr3. Thus, the volume of hemisphere can be given as:V = ½ (4/3)πr3 Volume of hemisphere = (2/3)πr3 cubic units Here, 'r' is the radius of the hemisphere π is a constant whose value is either 3.142 or 22/7. Volume Formula of Prism The volume formula of a prism is given by the product of the area of the base and height of the prism. It is mathematically expressed as: The volume of prism V = B × h units3. Here, "B" is the base area in square units "h" is the height of the prism in units. There are seven types of prisms based on the shape of the bases of prisms. The volume formula of prisms depends on the different bases of the prisms. Check out the volume of prism to understand the concept behind the volume formulas of various prisms. Volume Formula of Pyramid The volume of a pyramid is one-third of the volume of the prism (i.e., their bases and heights are congruent). Thus, The volume of pyramid(V) = (1/3) (Bh) units3, where B = base area of the pyramid in square units h = Height of the pyramid (altitude) in units Breakdown tough concepts through simple visuals. Math will no longer be a tough subject, especially when you understand the concepts through visualizations with Cuemath. Book a Free Trial Class Examples on Volume Formula Example 1: A cylindrical tank has a radius of 3 units and a height of 8 units, using the volume formula find the volume of the cylinder find its surface area. Solution: Given: r = 3 units, h = 8 units On substituting the values in the volume formula of the cylinder we have, Volume of a cylinder = πr2h V = π(3)2(8) V = π × 9 × 8 V = 72 π Substituting the value of π = 3.14 V = 72 × 3.14 = 226.08 units3 Volume of cylinder is 226.08 units3 Example 2: Given that the radius of a cone is 4 units and the height of a cone is 9 units. Using the volume formula, determine the volume of a cone. Solution: Given: Radius = 4 units and height =9 units Volume formula of cone = (1/3)πr2h. =1/3 × 3.14 × 42 × 9 =1/3 × 452.16 =150.72 units3 ∴The volume of the cone will be 150.72 units3 Example 3: Using the volume formula of the cube find the volume of the cuboid whose length is 9 inches, breadth is 7 inches and height is 5 inches. Solution: Given length of cuboid = 9 inches, breadth of cuboid = 7 inches, and height of cuboid = 5 inches. The volume formula of cuboid = l × b × h On substituting the values of l, b, and h in the volume formula we have, V = 9 × 7 × 5 = 315 = 315 inches3 ∴The volume of a cuboid will be 315 inches2 The volume formula of the cuboid is l × b × h cubic units. Here "l", "b", and "h" denote the length, breadth, and height of the cuboid. What Is the Relation Between Volume Formula for Sphere And Hemisphere? The volume formula of a hemisphere is half of the volume formula a sphere. It is given as: Volume of hemisphere = ½ (volume formula of a sphere) = ½ (4/3)πr3 = (2/3)πr3 cubic units , where "r" is the radius of the hemisphere/sphere. What Is the Volume Formula of a Cone? The volume formula of a cone is mathematically expressed as, V = (1/3)πr2h cubic units. Here "r" is radius of the base of the cone and "h" is the height of the cone. What Is the Relation Between Volume Formula of a Prism and Pyramid? The volume formula of a pyramid is 1/3 of the volume formula of a prism. It is given as: The volume of Pyramid = 1/3 (volume formula of a prism) = 1/3 (Bh) cubic units, where 'B' is the base area of the pyramid/prism given in terms of units2 and 'h' is the height of pyramid/prism given in terms of units. Cheatography V = 4/3 π x r³V = Volumer = radius V = (2/3)π x r3V = Volumer = Radius V = (2 x π x r) x lV = Volumer = Radiusl = Length V = a³V = Volumea = Side (length) V = h x l x bV = Volumeh = Heightl = Lengthb = Base (Width) V = 1/2 x h x b x lV = Volumeh = Heightb = Basel = Length V = l x w x h / 3V = Volumel = Lengthw = Width (or Base)h = Height V = 1/3 x h x π x r²V = Volumeh = Heightr = Radius volume 3d shapes ;> 1 Page //media.cheatography.com/storage/thumb/cheat_math-formulas-for-volume-for-3d-shapes.750.jpg Your Download Will Begin Automatically in 5 Seconds.Close

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