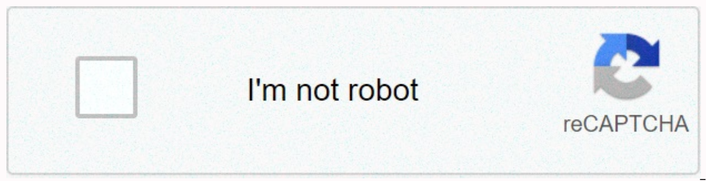

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Volume of semicircle prism

Enter a value for all fields Enter a value for all fields The volume of a shape is a measure of its total 3dimensional space. You can use the following simple formulas to help you calculate the volume of shapes such as cuboids and prisms. +100Join Yahoo Replies and Get 100 Points Today. Terms Privacy ĀdChoices°CRSS°CHelpAbout Answers°CCommunity Guidelines Ŀeaderboard Ķnowledge Partners/LevelsSend Points and Comments, +100Join Yahoo Answers and get 100 points today. Terms=Privacy/RSS/RSSA purpose Responses/Community Guidelines Ther ranking/Knowledge Partners.Points and Comments of LevelsSend, 1 Type the formula to find the volume of a triangular prism. The formula is simply V =1/2 x length x width x height. However, we will take this formula apart more to use the formula V =base area x height. You can find the base area using the formula to find the area of a triangle – multiplying 1/2 by the length and width of the base. 2 Find the area of the base face. To calculate the volume of a triangular prism, you must first find the area of the triangular base. Find the area of the base of the prism by multiplying 1/2 times the base of the triangle times its height. Ex: If the height of the triangular base is 5 cm and the base of the triangular prism is 4 cm, then the base area is 1/2 x 5 cm x 4 cm, which is 10 cm2. 3 Find the height. Let's say the height of this triangular prism is 7 cm. 4 Multiply the area of the triangular base face sometimes the height. Simply multiply the area of the base times the height. After multiplying the base and height, you will have the volume of the triangular prism. Ex:10 cm2 x 7 cm = 70 cm3 5 State of response in cubic units. You should always use cubic units when calculating the volume because you are working with three-dimensional objects. The final answer is 70 cm.3 1 Type the formula to find the volume of a cube. The formula is simply V =side3. A cube is a prism that happens to have three equal sides. [1] 2 Find the length of one side of the cube. All sides are the same, so it doesn't matter which side you choose. 3 Cube of it. To cube a number, just multiply it by yourself twice. The cube from a is x to x a, for example. Since all the lengths on the sides of the cube are equal, you do not need to find the base area and multiply it by height and then multiply it by length. Multiplying either side of the cube will give you the base area, and any third side could represent height. You can still think of it as multiplying length, width and height when they all just happen to be the same. E.g.: 3 cm3 = 3 cm. * 3 cm. * 3 cm. = 27 cm.3 4 State of your response in cubic units. Don't forget to put your final answer in Cubic. The final answer is 27 cm.3 1 Type the formula to find the volume of one of a Prisma. The formula is simply V =length*width*height. A rectangular prism is a prism with a rectangular base. 2 Find the length. Length is the longest side of the flat surface of the rectangle at the top or bottom of the rectangular prism. 3 Find the width. The width of the rectangular prism is the shorter side of the flat surface of the rectangle at the top or bottom of the shape. 4 Find height. Height is the part of the rectangular prism that rises upwards. You can imagine the height of the rectangular prism as the part that extends up a flat rectangle and makes it three-dimensional. 5 Multiply the length, width and height. You can multiply them to get the same result. Using this method, you have found essentially the area of the rectangular base (10 x 8) and then multiplied it by its height, 5. But to find the volume of this prism, you can multiply the lengths of the sides in any order. E.g.: 10 cm. * 8 cm. * 5 cm = 400 cm.3 6 State of your response in cubic units. The final answer is 400 cm.3 1 Type the formula to calculate the volume of a trapezoidal prism. The formula is: V = [1/2 x (base1 + base2) x height] x prism height. You must use the first part of this formula to find the trapezoidal base area of the prism before advancing. [2] 2 Find the area of the trapezoidal base face. To do this, simply connect the two bases and the height of the trapezoidal base to the formula. Say base 1 = 8 cm, base 2 = 6 cm, and height = 10 cm. E.g.: 1/2 x (6 + 8) x 10 = 1/2 x 14 cm x 10 cm = 70 cm2. 3 Find the height of the trapezoidal prism. Let's say the height of the trapezoidal prism is 12 cm. 4 Multiply the area of the base face sometimes the height. To calculate the volume of the trapezoidal prism, just multiply the area of the time base height. 70 cm2 x 12 cm = 840 cm3. 5 State of their response in cubic units. The final answer is 840 cm3 1 Write the formula to find the volume of a regular pentagonal prism. The formula is V = [1/2 x 5 x side x apothem] x prism height. You can use the first part of the formula to find the area of the pentagonal base face. You can think of it as finding the area of the five triangles that constitute a regular polygon. The side is simply the width of a triangle, and the apotema is the height of one of the triangles. You multiply it by 1/2 because that's part of finding the area of a triangle and then multiplying that by 5 because 5 triangles form the pentagon. [3] For more information about finding apotema if one is not provided for you, see here. [4] 2 Find the area of the pentagonal base face. Let's say the length on one side is 6 cm and the length of the apotema is 7 cm. Just connect these numbers to the formula: A=1/2 x 5 x side x apothem A=1/ x 5 x 6 cm x 7 cm = 105 cm2 3 Find the height. Let's say the height of the shape is 10 cm. cm. Multiply the area of the pentagonal base face sometimes the height. Just multiply the area of the pentagonal base, 105 cm2, sometimes the height, 10 cm, to find the volume of the regular pentagonal prism. 105 cm2 x 10 cm = 1050 cm3 5 State of response in cubic units. The final answer is 1050 cm3. Add a new question How do I find the volume of rectangular prisms? Calculate the base area (length multiplied by width), then multiply by height. Ask How do I calculate the volume of a rectangular prism if there are two different heights? A rectangular prism would not have two different heights. If you are asking about a non-rectangular prism, the volume formula would involve finding the average height of some of the sides. Ask How do I find the volume of a circular prism? The volume of a cylinder is found by straining the radius and then multiplying by the pine product and the height of the cylinder. ($V = \pi r^2 h$.) Ask How do I find the volume of a prism? As with any right prism, the base area is calculated and then multiplied by height. Ask How to find the volume of a rectangular box without knowing the height? This is not possible, unless you are given some clue to find out the height. Ask How do I find the volume of a hexagonal prism? Ask How do I find the volume of a rhomboo prism? Multiply the base area by height. Ask What is the volume of a rectangular pyramid? The volume is a third of the product of length, width and height. In other case, it is the area of the base, multiplied by height and divided by 3. Ask How do I find the volume of a diamond prism? Multiply the diamond area by the height of the prism. Question How do I find the volume of a heptagonal prism (a seven-sided 3D shape)? Multiply the base area by height. To find the area, see [[Find the regular polygon area]]. See more answers Ask a question Thank you! wikiCom is a wiki, similar to Wikipedia, which means that many of our articles are co-written by several authors. To create this article, 44 people, some anonymous, worked to edit and improve it over time. This article has been viewed 588,553 times. Co-authors: 44 Updated: September 15, 2020 Views: 588,553 Categories: Volume Print Send fan mail to authors Thanks to all authors for creating a page that has been read 588,553 times. Voted the best calculator: Percentage calculator geometry volume formulas of a cube, sphere, rectangular prism, pyramid, cylinder, ellipsoid, cone, any prism that has a constant cross-sectional area along the height, and a general volume formula for any figure. Shape Formula Variables Volume of a Cube: s = length of one side Volume of a rectangular prism: l = length, w = width, = height Volume of a cylinder (circular prism): r = radius of the circular face, h = distance between faces Any prism that has a cross-sectional area along the height volume: A = base area, h = height Volume of a sphere: r = sphere radius which is the first integral of the formula for the surface area of a sphere An ellipsoid volume: a, b, c = semi-ellipsoid volume axes of a pyramid: A = base area, h = base-to-apex height Volume of a cone (circular pyramid) : r = circle radius at base, h = base-to-point distance Any figure volume (calculation required) h = any dimension of the figure, A(h) = cross section area perpendicular to h described as a function of the position along h this will work for any figure (no matter if the prism is tilted or the cross sections change shape). +100Join Yahoo Replies and Get 100 Points Today. Terms Privacy ĀdChoices°CRSS°CHelpAbout Answers°CCommunity Guidelines Ŀeaderboard Ķnowledge Partners/LevelsSend Feedback°C Using relevant formulas you can calculate the volume and surface area of cuboids, cubes, prisms, cylinders, spheres, cones and composite shapes. Calculated.