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## How to find volume of a cuboid formula

===== Purpose of useReproduction with box size for fixed/variable size for a fixed volume Purpose of useMaterial tasks during Covid-19 Comment/RequestLife Saver Purpose of useMaterial tasks during crown timeComment/Request beautyPurpose of useSolving QuestionPurpose of usage basket estimateMathswatchComment/Requeston Comment/Request I had to solve for c with a known volume, but no cigar. I approached fishing for this, but... Thank you for your questionnaire. To improve this 'Volume of a rectangular cube calculator,' please fill in the questionnaire. We can calculate the volume of 3D forms to find their capacity or the amount of space they occupy. We can also find the surface that indicates the total surface of each of their faces. In this section, we consider the volume of any cube. The volume of a cube Volume of a cube = a b c = a b c where a, b and c are the lengths of the sides of the cube. Example We want to find the volume of this cube in cm<sup>3</sup>. To find the volume, we calculate 3 cm 4 cm 7 cm. The volume of the cube is 84 cm<sup>3</sup> (84 cubic)Practice Question Run the answer to this question then click to see if you are right. A letter 'T' form is glued together 2 cubes as shown in the diagram. What is the total volume in cm<sup>3</sup> of the letter 'T'? Run the answers to the questions below and fill in the boxes. Click the button to find out if you responded correctly. If you are right, it will appear and you should go to the next question. If it appears then the answer is wrong. Click to delete the original answer and have another go. If you can't fix the right answer, click on to see the answer. Now you have completed the unit 22 Section 3 Return to the Tutorials menu Produced by A.J. Reynolds January 2001. The volume of a cube is the quantity used to measure the space in a cube. The cube is a three-dimensional shape that can be seen around us very often. In this short lesson we will learn how to find the volume of a cube. We will also learn to deduct the cube volume formula using a rectangular sheet and understand how to apply the formula as well. Once you understand this chapter, you will learn how to solve problems on the volume of the cube. What is the volume of Cuboid? The volume of the cube is the size of the space occupied within a cube. The cube is a three-dimensional shape that has length, width and height. If we have a rectangular sheet and we go to stack such sheets, we will end up getting a shape that's certain length, width and height. This stack of sheets seems a form that has 6 faces, 12 edges and 8 vertices from which it gives us the shape of a cube. Cuboid volume unit is given as the unit (unit)<sup>3</sup>. The metric units of volume are cubic meters or cubic centimeters while the USCS units of volume are, cubic inches or cubic feet. The volume of the cube depends on the length, width and height of the cube, thus changing one of those quantities changes the volume of the shape. Volume of Cuboid Formula The formula for the volume of the cube can be derived from the concept explained on rectangular sheets. Let the area of a rectangular sheet of paper be A, the height until they are stacked both h and the volume of the cube and V. Then, the volume of the cube is given by multiplying the base area and the height. Volume of Cuboid = Base Area × Height The base area for cuboid = l × b So, the volume of a cube, V = l × b × h = lbh How to calculate the volume of Cuboid? The volume of a cube is the space occupied within a cube. If all three dimensions of a cube become equal, it becomes a cube. The volume of the cube can be calculated using the volume formula of the cube. Steps to calculate the volume of a cube are: Step 1: Check if the indicated size of cubes is in the same units or not. Otherwise, convert the size into the same units. Step 2: Once the dimensions are in the same units, multiply the length, the width,Cube height. Step 3: Write the unit at the end, once you get the value. Let's take an example to learn how to calculate the volume of a cube using its formula. Example: Find the volume of the cube with length of 7 inches, width of 5 inches, and height of 2 inches. Solution: As we know, the volume of a cube, V = l b h Here, length l = 7 inches, width b = 5 inches and height h = 2 inches So, the volume of cubes, V = l b h = (7 × 5 × 2) in<sup>3</sup> ⇒ V = 70 in<sup>3</sup> (\ below) The volume of cuboid is 70 in<sup>3</sup>. Example 1: If the size of a cube fish aquarium is, 30 inches, 20 inches and 15 inches. Can you determine the volume of the fish aquarium? Solution: As we know, the fish aquarium is Cuboidal. So, the size of the fish aquarium are: Aquarium length = 30 in aquarium width = 20 in aquarium height = 15 in Aquarium volume is given as: Volume = Length × Width × Height ⇒ Volume = 30 × 20 × 15 in<sup>3</sup>= 9000 in<sup>3</sup> Universe The volume of cuboidal fish aquarium is 9000 cubic inches. Example 2: What will be the length of the cube if its volume is 3000 in<sup>3</sup>, the width is 15 inches and the height is 10 inches? Solution: As we know, the volume of a cube is given as Volume = Length × Bread × Height. The dimensions indicated for cubes are: Volume = 3000 in<sup>3</sup> Bread = 15 in Height = 10 in Let the cube length is x inches. So, the volume of the cube will be: Volume =× Pane × Height ⇒ Volume = x × 15 × 10 = 3000 in<sup>3</sup> ⇒ x = (3000/(15 × 10)) = 20 in ✖ The length of the cube is 20 inches. Show reply > go slidego for slide Have questions about basic mathematical concepts? Become a sample that solves problems using logic, not rules. Discover the reason behind mathematics with ourCuemath certificate experts. Book a free trial class FAQ on Cuboid Volume The volume of a cube is the space that is enclosed in a cube. For example, to fill the water in an aquarium, we must know its volume. How to find the volume of Cuboid? The volume of a cube is calculated by multiplying its length, width and height. For example, the volume of a cube length, width and height 2 inches, 3 inches and 4 inches is given as Volume = length × width × height = 2 × 3 × 4 = 24 inches What is the Cuboid Volume Formula? The volume formula of a cube is = Length × Width × Height. The formula for the cuboid volume is deduced by stacking rectangle sheets one above the other, giving us three parameters in the length of the formula, width and height. If the size units of a Cuboid are different, then how to find the volume? If the units of the specified size of a cube are different, first we should change the units of size of any two sizes in the unit of the third dimension. After that, multiply all three dimensions known to us, to calculate the volume of the cube. He does the Order of the Highness,and length of matter during calculation of the volume of cuboid? no, the order of height, width and length does not matter while you find the volume of a cube because we need to multiply all three quantities to determine it. since multiplication is associative, therefore, no matter what size of the order multiplies the volume of the cube remains the same. how does the cube volume change when the side length is winged? the volume of the cube gets half when the length of the side is halved as l = l/2. as, volume of cuboid = length × width × height = (l/2)× b × h = (lbh)/2 = volume/2. Thus, the volume of the cube stops as soon as its length stops. 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