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How to convert square yards to cubic yards

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This example problem demonstrates how to convert cubic feet to liters. The cubic foot is the U.S. and imperial unit of volume for a cube that has sides that are 1 foot in length. The liter is an SI or metric unit of volume. It is the volume of a cube that has sides that are 10 centimeters in length. The conversion between the two systems is fairly common, particularly if you're working with liquefied gases. What is this volume of 1 cubic foot in liters? Many conversion factors are difficult to remember. Converting cubic feet to liters would fall into this category. The unit-canceling method is helpful in performing this kind of problem because it uses many easily remembered conversions that relate the original units to the final units, as follows: Using these steps, you can express feet to centimeters as: Distance in cm = (distance in ft) x (12 in/1 ft) x (2.54 cm/1 in) Distance in cm = (distance in ft) x 30.48 cm/ft Convert these distances into volume measurements of cm3 and ft3: Cube volume = (linear measurement)3, so: Volume in cm3 = [(distance in feet) x 30.48 cm/ft]3 Volume in cm3 = (volume in ft3) x 28316.85 cm3/ft3 Convert cubic centimeters to liters: Volume in liters = (volume in cm3) x (1 L/1,000 cm3) Volume in liters = (volume in cm3)/1,000 L/cm3 Insert the cubic volume from the previous step: Volume in liters = [(volume in ft3) x 28316.85 cm3/ft3]/(1,000 L/cm3 Volume in liters = (volume in ft3) x 28.317 L/ft3 Now you have your conversion factor of cubic feet to liters. Insert 1 cubic foot into the volume in ft3 part of the equation: Volume in liters = (1 ft3) x 28.317 L/ft3 Volume in liters = 28.317 L Therefore, one cubic foot is equal to 28.317 liters of volume. The conversion factor works the other way, too. For example, convert 0.5 liter to cubic feet. Use the conversion factor 1 cubic foot = 28.317 liters: Cubic feet = (0.5 liter) x (1 cubic foot / 28.317 liters) The liters cancel out on the top and bottom, leaving you with 0.5 / 28.317, and giving an answer of 0.018 cubic feet. The key to working the unit conversion correctly is to make certain the unwanted unit cancels out and leaves the desired unit. It's also worthwhile to keep track of significant digits. Remember there are about 28 liters in a cubic foot. If you're converting from cubic feet to liters, expect to get a larger number than you started with. If you're converting from cubic feet to liters, your final answer will be a smaller number. Cubic inches (in3) and cubic centimeters (cc or cm3) are common units of volume. Cubic inches is a unit used primarily in the United States, while cubic centimeters is a metric unit. This example problem demonstrates how to convert cubic inches to cubic centimeters. Many small car engines have an engine displacement of 151 cubic inches. What is this volume in cubic centimeters? Start with the conversion unit between inches and centimeters. 1 inch = 2.54 centimeters That is a linear measurement, but you need a cubic measurement for volume. You cannot simply multiply this number times three. Instead, form a cube in three dimensions. You may remember the formula for volume is length x width x height. In this case, length, width, and height are all the same. First, convert to cubic measurements: (1 inch) 3 = (2.54 cm) 3 1 in 3 = 16.387 cm 3 Now you have the conversion factor between cubic inches and cubic centimeters, so you're ready to complete the problem. Set up the conversion so the desired unit will be canceled out. In this case, you want cubic centimeters to be the remaining unit: volume in cm 3 = (volume in in 3) x (16.387 cm 3/1 in 3) volume in cm 3 = (151 x 16.387) cm 3 volume in cm 3 = 2474.44 cm 3 A 151-cubic-inch engine displaces 2474.44 cubic centimeters of space. You can reverse the direction of the volume conversion easily enough. The only trick is to make sure the correct units cancel out. Suppose you want to convert a 10 cm3 cube into cubic inches. Use the volume conversion from earlier, where 1 cubic inch = 16.387 cubic centimeters: volume in cubic inches = 10 cubic centimeters x (1 cubic inch / 16.387 cubic centimeters) volume in cubic inches = 10 / 16.387 cubic inches volume = 0.610 cubic inch The other conversion factor you could have used is: 1 cubic centimeter = 0.061 cubic inch It does not matter which conversion factor you choose. The answer will come out the same. If you're unsure whether you're doing the problem correctly, work it both ways to check yourself. Always check your work to ensure the resulting answer makes sense. A centimeter is a smaller length than an inch, so there are many cubic centimeters in a cubic inch. A rough approximation would be to say there are about 15 times more cubic centimeters than cubic inches. A value in cubic inches should be much smaller than its equivalent value in cubic centimeters (or, a number in cubic centimeters should be over 15 times larger than the number given in cubic inches). The most common mistake people make doing this conversion is not cubing the value being converted. Don't multiply it by three or add three zeros to it (three factors of 10). Cubing a number is multiplying it by itself three times. The other potential error is in reporting the value. In scientific calculations, it's important to watch the number of significant digits in an answer. This example problem demonstrates how to convert 100 yards to meters. Both yards and meters are common units of length, so the conversion is simple: An American football field has 100 yards of playing field. How far is this in meters?SolutionStart out with a conversion factor: 1 yard = 0.9144 metersSet up the conversion so that the desired unit will be canceled out. In this case, we want m to be the remaining unit.distance in m = (distance in yard) x (0.9144 m/1 yd)distance in m = (100 x 0.9144) mdistance in m = 91.44 mAnswer100 yards is equal to 91.44 meters.Many conversion factors are difficult to remember. Feet to meters would fall into this category. An alternate method to perform this conversion is to use multiple easily remembered steps.1 yard = 3 feet1 foot = 12 inches1 inch = 2.54 centimeters100 centimeters = 1 meter Using these steps we can express a distance in meters from yards as:distance in m = (distance in yd) x (3 ft/1 yd) (12 in/1 ft) x (2.54 cm/1 in) x (1 m/100 cm)distance in m = (distance in yd) x 0.9144 m/ydNote this gives the same conversion factor as above. The only thing to watch out for is for the intermediate units to cancel out.

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