

# CUBE CONFUSION!

## Does $a^3$ mean $a$ multiplied twice or thrice?

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<b>THRICE!</b>	<b>TWICE!</b>
<p>The result of multiplying a number, quantity or expression by itself three times.  <b>Source:</b>            Collins Dictionary of Mathematics. P.129            Harper Collins Publishers 2012</p>	<p>the product of a number multiplied by itself twice  <b>Source:</b>            Merriam-Webster Dictionary, An Encyclopedia            Britannica Company  <a href="http://www.merriam-webster.com/dictionary/cube">http://www.merriam-webster.com/dictionary/cube</a></p>
<p>To multiply a number or a quantity by itself three times  <b>Source:</b>            The American Heritage® Science            Dictionary  <a href="http://dictionary.reference.com/browse/cube">http://dictionary.reference.com/browse/cube</a></p>	<p>the cube of a number is the larger number that is the result of multiplying the number by itself twice  <b>Source:</b>            Macmillan Dictionary  <a href="http://macmillandictionary.com/dictionary/british/cube">http://macmillandictionary.com/dictionary/british/cube</a></p>
<p>...itself three times  <b>Source:</b> A Tour of the Calculus</p>	<p>the result of multiplying a number by itself twice  <b>Source:</b>            Kernerman English Multilingual Dictionary  <a href="http://www.thefreedictionary.com/cube">http://www.thefreedictionary.com/cube</a></p>
<p>Cube: When a number is... multiplied by itself three times.  <b>Source:</b> G Is for Googol: A Math Alphabet Book. P.55 David M. Schwartz, Marissa Moss. Tricycle Press. 1998</p>	<p>to determine the result of multiplying by itself twice  <b>Source:</b>            Wiktionary.org  <a href="http://www.wiktionary.org/wiki/cube">http://www.wiktionary.org/wiki/cube</a></p>
<p>In <math>2^3</math>, 2 is multiplied by itself three times  <b>Source:</b>            Mathematics. P.174 Mohina Dar, Sunita Jaisingh Amity University Press 2010</p>	<p>When a number is multiplied by itself two times, we get the cube of the number.  <b>Source:</b>            Modern School Mathematics Book 5. P.30 Lalitha Gopal. Sangam Books 2003</p>
<p>Cube Root: ... to find a number that when multiplied by itself three times gives the number...  <b>Source:</b>            How To Use A Chinese Abacus. P.123 Paul Green. Createspace. 2012</p>	<p>In the expression <math>5^3</math>, the 3 is the exponent and indicates that 5 is multiplied by itself twice.  <b>Source:</b>            GED Math (GED Test Prep) P.79 Learning Express Editors. Learning Express. 2008</p>
<p><math>x^3</math> ... means <math>x</math> multiplied by itself three times.  <b>Source:</b>            The Calculus Direct P.34 John Weiss. CreateSpace 2010</p>	

<p>The <b>cube root</b> of a number is the number that, when multiplied by itself three times, equals the given number;  <b>Source:</b>  Math Review. P.2 Bar Charts Inc. 2012</p>	<p>...a cube is the product of a number multiplied by itself twice.  <b>Source:</b>  Math Magic: How to Master Everyday Math Problems P.144 Scott Flansburg, Victoria Hay. William Morrow Paperbacks. 2004</p>
<p>a number multiplied by itself three times.  <b>Source:</b>  Vocabulary.com  <a href="http://vocabulary.com/dictionary/cube">http://vocabulary.com/dictionary/cube</a></p>	<p>If you cube a number, you multiply it twice by itself  <b>Source:</b>  Cambridge Dictionaries Online  <a href="http://dictionary.cambridge.org/dictionary/british/cube_4">http://dictionary.cambridge.org/dictionary/british/cube_4</a></p>
<p>a number... multiplied by itself three times  <b>Source:</b> Wordsmyth  <a href="http://wordsmyth.net/?level=3&amp;ent_ =cube">http://wordsmyth.net/?level=3&amp;ent_ =cube</a></p>	<p>The product of a number multiplied by itself twice  <b>Source:</b>  Oxford English Dictionary P.198 Paperback Edition Oxford University Press 2002</p>
<p>When a number is multiplied by itself three times, it is <i>cubed</i>.  <b>Source:</b>  Painless Algebra. Lynette Long. P.221 Barron's Educational Series. 2011</p>	<p>Cube: to multiply a number or quantity by itself twice  <b>Source:</b>  Encarta Dictionary</p>
<p>...multiplied by itself three times.  <b>Source:</b>  All Math Words Dictionary. David E. McAdams. P.134 2012</p>	
<p>Cube Root. Number that you can multiply by itself three times to get a given number.^  <b>Source:</b>  Algebra I for Dummies. Mary Jane Sterling P.339. For Dummies 2001</p>	<p>The result when a number is multiplied by itself twice.  <b>Source:</b>  CliffsNotes Math Review for Standardized Tests. Jerry Bobrow. P.225 Cliff Notes 2010</p>
<p>Cube Root. A number that must be multiplied times itself three times to equal a given number.  <b>Source:</b> Mathwords.com  <a href="http://www.mathwords.com/c/cube_root.htm">http://www.mathwords.com/c/cube_root.htm</a></p>	<p>A number that is equal to another number multiplied by itself twice.  <b>Source:</b>  The Penguin Dictionary of Curious and Interesting Numbers. David Wells. P.12 Penguin Books 1988</p>
<p><b>PUBLISHERS HAVING IT BOTH WAYS!</b></p>	
<p>Cube Root. Number that can be multiplied by itself three times to get a given number.  <b>Source:</b> Technical Math For Dummies. Barry Schoenborn, Bradley Simkins. P335. John Wiley &amp; Sons 2010</p>	<p>...the third root (or cube root) of 8 is 2 because 2 multiplied by itself two times is 8.  <b>Source:</b> Pre-Calculus Workbook For Dummies. Yang Kuang, Michelle Rose Gilman. P.28. John Wiley &amp; Sons 2011</p>
<p>→ The cube of a number n is this number multiplied three times by itself.  <b>Source:</b>  Wiktionary  <a href="http://simple.wiktionary.org/wiki/cube">http://simple.wiktionary.org/wiki/cube</a></p>	<p>→ to determine the result of multiplying by itself twice  <b>Source:</b>  Wiktionary  <a href="http://en.wiktionary.org/wiki/cube">http://en.wiktionary.org/wiki/cube</a></p>