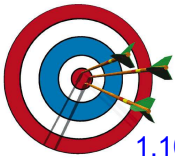


Unit 1-10



# Cube Roots

Today's Learning Targets:

1.10 I can evaluate the cube root of a perfect cube.

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The cube of a whole number is a perfect cube!



cube root	
$\sqrt[3]{1}$	= 1
$\sqrt[3]{8}$	= 2
$\sqrt[3]{27}$	= 3
$\sqrt[3]{64}$	= 4
$\sqrt[3]{\quad}$	
$\sqrt[3]{\quad}$	
$\sqrt[3]{\quad}$	

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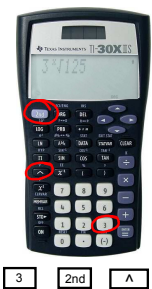
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$\sqrt[3]{\quad}$  = cube root



$\sqrt[3]{1} =$

$\sqrt[3]{27} =$

$\sqrt[3]{8} =$

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Unit 1-10

Plus or minus??  
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You Try!  
Solve:  $x^3 = 64$

$x^3 = 512$        $x^3 = 125$

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Cube roots of decimals...

$\sqrt[3]{.027} =$

$\sqrt[3]{.064} =$

$\sqrt[3]{.125} =$

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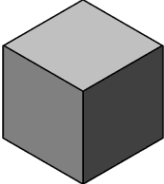
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A cube-shaped box has a volume of 64 cubic ft.  
What is the side length of the box?

$V = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

How is a cube different from any other box?



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## Unit 1-10

A cube-shaped dunk tank holds  
27 cubic feet of water.  
What are the dimensions of the tank?



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