

M9

Cubes and Cube Roots

Perfect Cube Numbers = non-negative integers

0^3		6^3	
1^3		7^3	
2^3		8^3	
3^3		9^3	
4^3		10^3	
5^3		11^3	

Determine the cube roots of the given numbers:

Without a calculator:

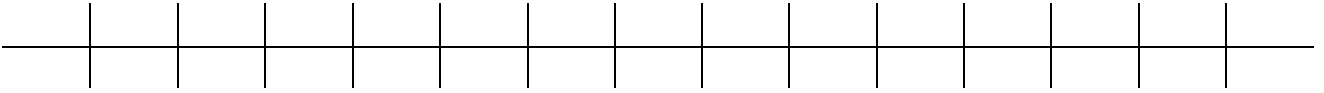
$\sqrt[3]{8}$	
$\sqrt[3]{64}$	
$\sqrt[3]{1000}$	
$\sqrt[3]{125}$	
$\sqrt[3]{1}$	

With a calculator: (round to the nearest tenth).

$\sqrt[3]{15}$	
$\sqrt[3]{90}$	
$\sqrt[3]{48}$	
$\sqrt[3]{150}$	
$\sqrt[3]{7}$	

Complete the number line:

- Add arrow that show that the number line continues to positive and negative infinity.
- Label the bottom of the number line with non-negative integers.
- Label the top of the number line with cube roots.



Use the above number line to estimate cube roots to the nearest tenth.

$\sqrt[3]{5}$	$\sqrt[3]{12}$	$\sqrt[3]{28}$	$\sqrt[3]{256}$	$\sqrt[3]{700}$

Check your above estimates and note whether you were correct or not. Round to the nearest tenth.

	$\sqrt[3]{5}$	$\sqrt[3]{12}$	$\sqrt[3]{28}$	$\sqrt[3]{256}$	$\sqrt[3]{700}$
Calculated value rounded to the nearest tenth.					
Correct? Yes or No.					