

## Cube Roots $\sqrt[3]{\quad}$

To simplify a radical with a cube root look for perfect cubes.

Cube Root	Perfect Cube
1	1
2	8
3	27
4	64
5	125

Ex 1)  $\sqrt[3]{40}$   $\sqrt[3]{8} \sqrt[3]{5}$   
 $2 \sqrt[3]{5}$

Ex 2)  $\sqrt[3]{144}$   $\sqrt[3]{8} \sqrt[3]{18}$   
 $2 \sqrt[3]{18}$

Ex 3)  $\sqrt[3]{108}$   $\sqrt[3]{27} \sqrt[3]{4}$   
 $3 \sqrt[3]{4}$

Ex 4)  $\sqrt[3]{375}$   $\sqrt[3]{125} \sqrt[3]{3}$   
 $5 \sqrt[3]{3}$

Ex 5)  $\sqrt[3]{72}$   $\sqrt[3]{8} \sqrt[3]{9}$   
 $2 \sqrt[3]{9}$