

Square Root / घनमूल

Perfect Cube Non-Perfect Cube

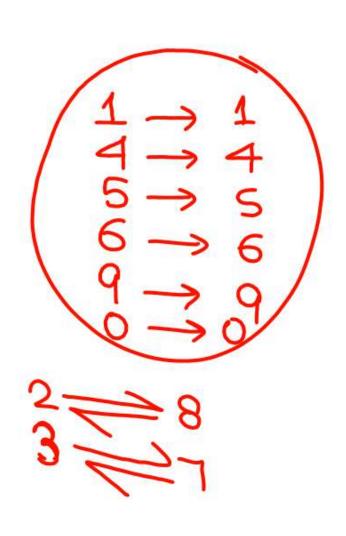
Cube Root of perfect square पूर्ण घन का घनमूल

A perfect cube is a number that is the cube of an integer.

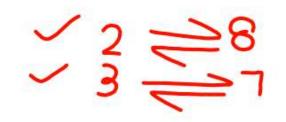
पूर्ण घन वह संख्या होती है जो पूर्णांक का घन होती है।

For example,

64, 216, 1728, 2744, etc 4x4x4



1 ³	1~
2 ³	8 ~
3 ³	2 <u>7</u>
43	64_
5 ³	125
6 ³	216
7 ³	343
8 ³	512
93	729
10 ³	1000



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Example: Calculate the cube root of 157464

First make a group of 3-digits starting from the unit digit.

157 464

Unit digit of 157464 is 4. 5 4 ~

So the unit digit of cube root will be 4.

Now, calculate the tens digit of cube root of 157464, we should find a natural number whose cube root is just less than 157

In this case, it is 5.

Cube root of 157464 is 54.

$$(21952) =$$



$$(21952) =$$

$$(148877) = 5 3 \checkmark$$

$$(300763) = 6 1$$

If the number is greater than 10 lakhs but less than 100 crores यदि संख्या 10 लाख से अधिक लेकिन 100 करोड़ से कम है

$$\sqrt[3]{34965783} =$$

$$034965783 = 3 \times 1$$
 -343
 327
 $034965783 = 3 \times 1$
 $044965783 = 3 \times 1$
 $04496783 = 3 \times 1$

Step1:

$$3l^{2}x \longrightarrow 4$$

$$3xqxx \longrightarrow 4$$

$$4xx \longrightarrow 4$$

$$\sqrt[3]{702595369} =$$

$$\frac{702595369}{9} = \frac{8}{8} \times \frac{9}{9}$$

$$\frac{3x^2xx \rightarrow 4}{3x^2xx \rightarrow 4}$$

$$\frac{3x^2xx \rightarrow 4}{3x^2xy \rightarrow 4}$$

$$\sqrt[3]{33076161} =$$

S-1
$$\frac{6}{6} \circ 321$$
S-2
$$3(^{2}xx \rightarrow 6)$$

$$3x1xx \rightarrow 6$$

3 893056347

$$\frac{893056347 = 9}{20} \times 963$$

$$\frac{3}{20} \times 963$$

<u>S-2</u>

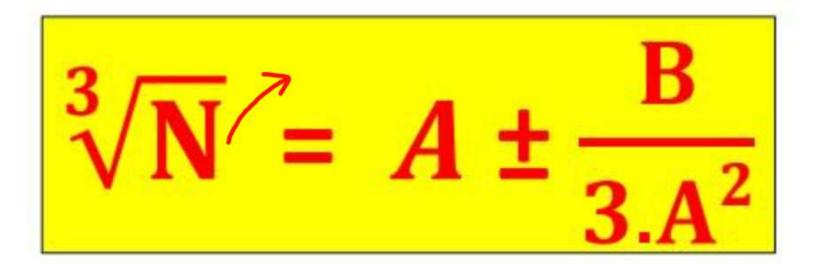
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$$\sqrt[3]{485587656} =$$

$$\sqrt[3]{169112377} =$$

Afri in comment

Square Root of Non-perfect square अपूर्ण वर्ग का वर्गमूल



First find a number which is a perfect cube near to the number N, let it be a and the difference between N and a³ is b.

Note:

- + sign is used if N > a³
- sign is used if N < a³

$$A \pm \frac{3}{3}$$
 $A \pm \frac{3}{3}$
 $A \pm \frac{3}{3}$

$$2+2/3$$

= $2+6$
= 2.16

Ex.
$$\sqrt[3]{60} = \frac{-64}{-4}$$

Ex.
$$\sqrt[3]{118} = \frac{128}{128}$$

Ex.
$$\sqrt[3]{226} =$$

Ex.
$$\sqrt[3]{706} =$$

Ex.
$$\sqrt[3]{953} =$$

Ex.
$$\sqrt[3]{1365}$$
 =

Ex.
$$\sqrt[3]{1500}$$
 =

Ex.
$$\sqrt[3]{255} =$$