

Class – 8 NCERT Solutions – Mathematics Chapter 6: Cubes and Cube Roots

Hence, 30 is cube root of 27000.

(v) 15625	
$15625 = 5 \times 5 \times 5 \times 5 \times 5 \times 5$	
$\Rightarrow 15625 = (5 \times 5 \times 5) \times (5 \times$	$5 \times 5$ )
$\sqrt[3]{15625} = (5 \times 5) = 25$	
Hence cube root of 15625 is 25	

5	15625
-5	3125
5	625
5	125
5	25
5	5
	1

(vi)	1	3	8	2	4

$$\therefore \sqrt[3]{13824} = (2 \times 2 \times 2 \times 3) = 24$$

Hence, 24 is cube root of 13824.

2	13824
2	6912
2	3456
2	1728
2	864
2	432
2	216
2	108
2	54
3	27
3	9
3	3
	1

#### (vii) 110592

$$\therefore \sqrt[3]{110592} = (2 \times 2 \times 2 \times 2 \times 3) = 48$$

Hence, 48 is cube root of 110592.

1	55,2796
Z	27648
2	13824
2	6912
2	3456
2	1728
2	864
2	432
2	216
2	109
2	54
3	27
3	9
3	3
11770	1

110592

(viii) 46656

$$\Rightarrow 46656 = (2 \times 2 \times 2) \times (2 \times 2 \times 2) \times (3 \times 3 \times 3) \times (3 \times 3 \times 3)$$

$$...\sqrt[8]{46656} = (2 \times 2 \times 3 \times 3) = 36$$

Hence, 36 is cube root of 46656.

2	46656
2	23328
2	11664
2	5832
2	2916
2	1458
3	729
3	243
3	81
3	27
3	9
3	3.
	1

# **Maths Workout 6**

## **Daniel F McAuley**



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