



MATHS

NCERT - NCERT Maths(Hinglish)

CUBES AND CUBE ROOTS

Exercise 7 2

1. State true or false.(i) Cube of any odd number is even.(ii) A perfect cube does not end with two zeros.(iii) If square of a

number ends with 5, then its cube ends with 25.(iv) There is no perfect cube which ends with 8.(v) The cube of a two digit number may be a three digit number.(vi) The cube of a two digit number may have seven or more digits.(vii) The cube of a single digit number may be a single digit number.



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2. You are told that 1,331 is a perfect cube. Can you guess without factorisation what is its

cube root? Similarly, guess the cube roots of 4913, 12167, 32768.



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3. Find the cube root of each of the following numbers by prime factorisation method.

(i) 64

(ii) 512

(iii) 10648



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Solved Examples

1. Find the cube root of 17576 through estimation.



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2. Is 243 a perfect cube?



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3. Is 392 a perfect cube? If not, find the smallest natural number by which 392 must be

multiplied so that the product is a perfect cube.



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4. Is 53240 a perfect cube? If not, then by which smallest natural number should 53240 be divided so that the quotient is a perfect cube?



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5. Is 1188 a perfect cube? If not, by which smallest natural number should 1188 be divided so that the quotient is a perfect cube?



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6. Is 68600 a perfect cube? If not, find the smallest number by which 68600 must be multiplied to get a perfect cube.



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7. Find the cube root of 8000.

A. 30

B. 20

C. 40

D. 10

Answer: *B*



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8. Find the cube root of 13824 by prime factorization method.

A. 24

B. 21

C. 22

D. 23

Answer: A



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Exercise 7 1

1. Find the smallest number by which each of the following numbers must be divided to obtain a perfect cube.

(i) 81

(ii) 128

(iii)

135

(iv) 192 (v) 704



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2. Find the smallest number by which each of the following numbers must be multiplied to

obtain a perfect cube.(i) 243

(ii)

256

(iii) 72

(iv) 675(v) 100



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3. Which of the following numbers are not perfect cubes?

(i) 216

(ii) 128

(iii) 1000

(iv) 100(v) 46656



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4. Parikshit makes a cuboid of plasticine of sides 5cm , 2cm , 5cm . How many such cuboids will he need to form a cube?

A. 22

B. 21

C. 23

D. 20

Answer: D



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