

CUBES AND CUBE ROOTS

1. Which is the smallest three-digit perfect cube?
(a) 125 (b) 343 (c) 729 (d) 512
2. Which is the greatest three-digit perfect cube?
(a) 125 (b) 343 (c) 729 (d) 512
3. Which of the following is not a perfect cube ?
(a) 1 (b) 9 (c) 8 (d) 27
4. The cube of 4 is _____.
(a) 12 (b) 8 (c) 4 (d) 64
5. The value of 5^3 is _____.
(a) 125 (b) 15 (c) 10 (d) 75
6. The cube of an even number is always _____.
(a) odd number (b) even number (c) prime number (d) none of these
7. The cube of an odd number is always _____.
(a) odd number (b) even number (c) prime number (d) none of these
8. Each prime factor appears _____ times in its cube?
(a) 2 (b) 3 (c) 1 (d) 4
9. Which of the following is Hardy-Ramanujan Number ?
(a) 1724 (b) 1725 (c) 1727 (d) 1729
10. By which smallest natural number 392 must be multiplied so as to make the product a perfect cube ?
(a) 2 (b) 14 (c) 7 (d) 49

11. The smallest natural number by which 243 must be multiplied to make the product a perfect cube is_____.

- (a) 3 (b) 9 (c) 8 (d) 7

12. The smallest natural number by which 704 must be divided to obtain a perfect cube is

- (a) 22 (b) 12 (c) 11 (d) 13

13. The smallest natural number by which 135 must be divided to obtain a perfect cube is

- (a) 5 (b) 3 (c) 15 (d) 9

14. Which of the following is not a perfect cube ?

- (a) 216 (b) 343 (c) 125 (d) 108

15. The expansion of a^3 is_____.

- (a) $3 \times a$ (b) $a+a+a$ (c) $3 \times 3 \times 3$ (d) $a \times a \times a$

16. What will be the unit digit of the cube of a number ending with 2 ?

- (a) 8 (b) 4 (c) 2 (d) 6

17. What will be the unit digit of the cube of a number ending with 4 ?

- (a) 4 (b) 6 (c) 2 (d) 8

18. What will be the unit digit of the cube of a number ending with 6 ?

- (a) 4 (b) 6 (c) 2 (d) 8

19. A cuboid has dimensions 5cm , 2cm, 5cm .How many such cuboid will be needed to form a cube ?

- (a) 20 (b) 10 (c) 5 (d) 2

20. How many cuboids of dimensions 15cm, 30cm ,15cm will be needed to form a cube?

- (a) 15 (b) 4 (c) 30 (d) 5

