

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 _____.

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

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

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

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 ?

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

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

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

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

