

Grade 8 Cubes and Cube Roots Worksheets

Grade 8 Maths Cubes and Cube Roots Multiple Choice Questions (MCQs)

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

- (a) 1
- (b) 9
- (c) 8
- (d) 27

2. The value of 5^3 is

- (a) 125
- (b) 15
- (c) 10
- (d) 75

3. The cube of an even number is always

- (a) odd number
- (b) even number
- (c) prime number
- (d) none of these

4. The cube of an odd number is always

- (a) odd number
- (b) even number
- (c) prime number
- (d) none of these

5. Each prime factor appears times in its cube?

- (a) 2
- (b) 3
- (c) 1
- (d) 4

6. Which of the following is Hardy-Ramanujan Number?

- (a) 1724
- (b) 1725
- (c) 1727
- (d) 1729

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

- (a) 22
- (b) 12

- (c) 11
- (d) 13

8. The expansion of a^3 is

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

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

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

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

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

11. The symbol for cube root is

- (a) $\sqrt{\quad}$
- (b) $\sqrt[3]{\quad}$
- (c) $\sqrt[4]{\quad}$
- (d) None of these

12. The value of $\sqrt[3]{343}$ is

- (a) 8
- (b) 7
- (c) 6
- (d) 3

13. If the volume of a cube is 125 cm^3 then what would be the length of its side?

- (a) 25
- (b) 5
- (c) 4
- (d) 15

14. 9 is the cube root of

- (a) 343
- (b) 729
- (c) 629
- (d) 81

15. How many digits will be there in the cube root of 46656?

- (a) 2
- (b) 1

(c) 3

(d) 4

16. How many digits will be there in the cube root of 512?

(a) 1

(b) 2

(c) 3

(d) 4

17. What will be the unit digit of $\sqrt[3]{15625}$?

(a) 5

(b) 0

(c) 3

(d) 4

18. How many zeros will be there in the cube root of 27000?

(a) 3

(b) 0

(c) 1

(d) 2

19. If $8^3 = 512$, then $\sqrt[3]{512} = \dots\dots\dots$

(a) 3

(b) 7

(c) 13

(d) 8

20. Find the cube root of 0.0027.

(a) 3

(b) 0.3

(c) 0.03

(d) None of these

Class 8 Maths Cubes and Cube Roots Fill In The Blanks

1. There are perfect cubes between 1 and 1000.

2. Cube of a number ending 7 will end in the digit

3. A perfect cube can be expressed as the product of prime factors.

4. Sum of the cubes of first 3 natural numbers is equal to of their sum.

5. The least number by which 72 be multiplied to make it a perfect cube is

Class 8 Maths Cubes and Cube Roots True(T) Or False(F)

1. There are five perfect cubes between 1 and 100.

2. For an integer a, a^3 is always greater than a^2 .

3. Let x and y be natural number. If x divides y , then x^3 divides y^3 .

4. $\sqrt[3]{64 + 125} = \sqrt[3]{64} + \sqrt[3]{125}$

5. Cube roots of 1 are +1 and -1.

Class 8 Maths Cubes and Cube Roots Very Short Answer Type Questions

1. Which is the smallest three-digit perfect cube?

2. Which is the greatest three-digit perfect cube?

3. By which smallest natural number 392 must be multiplied so as to make the product a perfect cube?

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

5. What will be the unit digit of the cube root of a number ends with 8?

6. What will be the unit digit of $\sqrt[3]{216}$?

Class 8 Maths Cubes and Cube Roots Short Answer Type Questions

1. If $a^3 - 1 = 1330$, then $a = \dots\dots\dots$

2. Find the cube root of $\frac{1331}{1728}$.

3. If $\sqrt[3]{\frac{x}{y}} = \frac{2}{3}$ then $\frac{x}{y} =$

4. Three numbers are in the ratio 1:2:3 and the sum of their cubes is 288. Find the numbers.

Class 8 Maths Cubes and Cube Roots Long Answer Type Questions

1. Find the cube root of 13824 by prime factorisation method.

2. Parikshit makes a cuboid of plasticine of side 5 cm, 2 cm, 5 cm. How many such cuboids will be needed to form a cube?

3. What will be the ten's digit of the cube root of 91125?