## [CLASS-VIII] MATHEMATICS | QUESTION BANK | 2021-22

## CHAPTER-4

## **CUBES AND CUBE ROOTS**

## **QUESTION BANK**

1. Find the cube of :

- (i) 7
- (ii) 11
- (iii) 16
- (iv) 23
- (v) 31
- (vi) 42
- (vii) 54

2. Find which of the following are perfect cubes :

- (i) 243
- (ii) 588
- (iii) 1331
- (iv) 24000
- (v) 1728
- (vi) 1938

3. Find the cubes of :

- (i) 2.1
- (ii) 0.4
- (iii) 1.6
- (iv) 2.5
- (v) 0.12
- (vi) 0.02
- (vii) 0.8
- 4. Find the cubes of :
  - (i) -3
  - (ii) -7
  - (iii) -12
  - (iv) -18
  - (v) -25
  - (vi) -30
  - (vii) -50

- 5. Which of the following are cubes of: (i) an even number (ii) an odd number 216, 729, 3375, 8000, 125, 343, 4096 and 9261.
- 6. Find the least number by which 1323 must be multiplied so that the product is a perfect cube.
- 7. Find the smallest number by which 8768 must be divided so that the quotient is a perfect
- 8. Find the smallest number by which 27783 be multiplied to get a perfect square number.
- 9. With what least number must 8640 be divided so that the quotient is a perfect cube?
- 10. Which is the smallest number that must be multiplied to 77175 to make it a perfect cube?
- Find the cube-roots of : 11.
  - (i) 64
  - (ii) 343
  - (iii) 729
  - (iv) 1728
  - (v) 9261
  - (vi) 4096
  - (vii) 8000
  - (viii) 3375
- 12. Find the cube-roots of :
  - (i) 27/64
  - (ii) 125/216
  - (iii) 343/512
  - (iv) 64 x 729
  - (v) 64 x 27
  - (vi) 729 x 8000 (vii) 3375 x 512
- 13.
  - Find the cube-roots of :
    - (i) -216
    - (ii) -512
    - (iii) -1331
    - (iv) -27/125
    - (v) -64/343

- (vi) -512/343 (vii) -2197 (viii) -5832 (ix) -2744000
- 14. Find the smallest number by which 26244 may be divided so that the quotient is a perfect cube.
- 15. Find the cube-roots of :
  - (i) 2.744
  - (ii) 9.261
  - (iii) 0.000027
  - (iv) -0.512
  - (v) -15.625
  - (vi) -125 x 1000
- 16. What is the least number by which 30375 should be multiplied to get a perfect cube?
- 17. Find the cube-roots of :

  (i) 700 x 2 x 49 x 5
  (ii) -216 x 1728
  (iii) -64 x -125
  (iv) -27/343
  (v) 729/-1331
  (vi) 250.047
  (vii) -175616
- 18. Is 343 or 243 a perfect cube
- 19. Find the cube root of 8000.
- 20. Find the cube root of 13824.
- 21. Is 292 a perfect cube? If not find the smallest natural number by which it must be multiplied so that the product is a perfect cube.

- 22. Show that 1728 is a perfect cube.
- 23. What is the number whose cube is 216?
- 24. Find the smallest number by which 68600 must be multiplied to get a perfect cube.
- 25. Which smallest natural number should divide 1188 so that the quotient is a perfect cube?
- 26. Is the cube of 4913 an odd number? Why?
- 27. Is the cube of 132651 an even number? Why?
- 28. Which of the following numbers is a perfect cube?
  - (a) 125
  - (b) 36
  - (c) 75
  - (d) 100.

29. Which of the following numbers is a cube number?

- (a) 1000
- (b) 400
- (c) 100
- (d) 600.

30. Which of the following numbers is not a perfect cube?

- (a) 1331
- (b) 512
- (c) 343
- (d) 100.

31. Which of the following numbers is not a cube number?

- (a) 10000
- (b) 3125
- (c) 64
- (d) 729.

- 32. The cube of an odd natural number is
  - (a) even
  - (b) odd
  - (c) may be even, may be odd
  - (d) prime number.
- 33. The cube of an even natural number is
  - (a) even
  - (b) odd
  - (c) may be even, may be odd
  - (d) prime number.
- 34. The cube of an even natural number is
  - (a) even
  - (b) odd
  - (c) may be even, may be odd
  - (d) prime number.
- 35. The one's digit of the cube of the number 242 is
  - (a) 2
  - (b) 4
  - (c) 6
  - (d) 8.

36. The one's digit of the cube of the number 123 is

- (a) 3
- (b) 6
- (c) 9
- (d) 7.

37. The one's digit of the cube of the number 144 is

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

38. The one's digit of the cube of the number 50 is

- (a) 1
- (b) 0
- (c) 5
- (d) 4.

39. The one's digit of the cube of the number 326 is

- (a) 2
- (b) 3
- (c) 6
- (d) 4.

40. The one's digit of the cube of the number 325 is

- (a) 2
- (b) 5
- (c) 3
- (d) 6.

41. The one's digit of the cube of the number 347 is

- (a) 3
- (b) 4
- (c) 7
- (d) 1.

42. The one's digit of the cube of the number 68 is

- (a) 1
- (b) 2
- (c) 6
- (d) 8.

43. The one's digit of the cube of the number 249 is

- (a) 2
- (b) 4
- (c) 9
- (d) 1.

44. What is the one's digit in the cube root of the cube number 1331?

- (a) 1
- (b) 2

- (c) 3
- (d) 4

45. What is the one's digit in the cube root of the cube number 1000000?

- (a) 0
- (b) 1
- (c) 2
- (d) 9.

46. What is the one's digit in the cube root of the cube number 1728?

- (a) 1
- (b) 2
- (c) 3
- (d) 9.

47. What is the one's digit in the cube root of the cube number 2197?

- (a) 1
- (b) 2
- (c) 3
- (d) 7.

48. What is the one's digit in the cube root of the cube number 2744?

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

49. What is the one's digit in the cube root of the cube number 3375?

- (a) 2
- (b) 3
- (c) 5
- (d) 4.

50. What is the one's digit in the cube root of the cube number 4096?

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

51. What is the one's digit in the cube root of the cube number 4913?

- (a) 7
- (b) 9
- (c) 3
- (d) 6.

52. What is the one's digit in the cube root of the cube number 5832?

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

53. What is the one's digit in the cube root of the cube number 6859?

- (a) 7
- (b) 8
- (c) 9
- (d) 6.

54. What is the one's digit in the cube root of the cube number 8000?

- (a) 0
- (b) 2
- (c) 4
- (d) 8.

55. The number of zeroes at the end of the cube of the number 20 is

- (a) 1
- (b) 2
- (c) 3
- (d) 6.

56. The number of zeroes at the end of the cube root of the cube number 1000

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

57. The number of zeroes at the end of the cube of the number 100 is

- (a) 1
- (b) 2
- (c) 4
- (d) 6.

58. The number of zeroes at the end of the cube root of the cube number 8000000 is

- (a) 1
- (b) 2
- (c) 3
- (d) 6.

59. Find the smallest number by which the number 108 must be multiplied to obtain a perfect cube.

- (a) 2
- (b) 3
- (c) 4
- (d) 5.

60. Find the smallest number by which the number 250 must be divided to obtain a perfect cube.

- (o) 2
- (b) 3
- (c) 4
- (d) 5.

61. Find the smallest number by which the number 72 must be multiplied to obtain a perfect cube.

- (a) 2
- (b) 3
- (c) 4
- (d) 6.

62. Find the smallest number by which the number 375 must be divided to obtain a perfect cube.

- (a) 2
- (b) 3
- (c) 5
- (d) 4.

- 63. Find the smallest number by which the number 100 must be multiplied to obtain a perfect cube.
  - (a) 5
  - (b) 2
  - (c) 4
  - (d) 10.
- 64. Find the smallest number by which the number 10000 must be divided to obtain a perfect cube.
  - (a) 2
  - (b) 5
  - (c) 10
  - (d) 100
- 65. Find the smallest number by which the number 200 must be multiplied to obtain a perfect cube.
  - (a) 2
  - (b) 10
  - (c) 5
  - (d) 100.
- 66. Find the smallest number by which the number 625 must be divided to obtain a perfect cube.
  - (a) 3
  - (b) 5
  - (c) 25
  - (d) 125.
- 67. Find the smallest number by which the number 128 must be multiplied to obtain a perfect cube.
  - (a) 2
  - (b)4
  - (c) 3
  - (d) 8.
- 68. Find the smallest number by which the number 256 must be divided to obtain a perfect cube.(a) 2

- (b) 4
- (c) 8
- (d) 16.

69. Find the smallest number by which the number 36 must be multiphed to obtain a perfect cube.

- (a) 6
- (b) 2
- (c) 3
- (d) 4.

70. Find the smallest number by which the number 1296 must be divided to obtain a perfect cube.

- (a) 6
- (b) 2
- (c) 4
- (d) 3.

71. Find the smallest number by which the number 392 must be multiplied to obtain a perfect cube.

- (a) 3
- (b) 5
- (c) 7
- (d) 6.

72. Find the smallest number by which the number 2401 must be divided to obtain a perfect cube.

- (a) 7
- (b) 6
- (c) 5
- (d) 9.

73. Find the smallest number by which the number 121 must be multiplied to obtain a perfect cube.

- (a) 7
- (b) 9
- (c) 11
- (d) 5.

- 74. Find the smallest number by which the number 88 must be divided to obtain a perfect cube.
  - (a) 11
  - (b) 5
  - (c) 7
  - (d) 9.