Cubes & Cube Roots Worksheet – 1

1. The cube of 0.5 is 0.0125. Mark True / False.

a)   True

b)   False

2. The cube of a two-digit number cannot be a three digit. Mark True / False.

a)   True

b)   False

3. Cube of any even number is odd. Mark True / False.

a)   True

b)   False

4. Cube of an even number is even. Mark True / False.

a)   True

b)   False

5. A perfect cube does not end with 0. Mark True / False.

a)   True

b)   False

6. 99 is a perfect cube. Mark True / False.

a)   True

b)   False

7. Cube roots of 27 are + 3 and -3. Mark True / False.

a)   True

b)   False

8. There is no cube root of a negative integer. Mark True / False.

a)   True

b)   False

9. Finding cube root is the inverse operation of finding cube. Mark True / False.

a)   True

b)   False

10. $\sqrt[3]{27 + 64}$ = $\sqrt[3]{27}$ + $\sqrt[3]{64}$. Mark True / False.

a)   True

b)   False

11. Write the cube of first three multiples of 2.

a)   8, 64, 216

b)   2, 6, 8

c)   2, 4, 6

d)   4, 36, 64

12. Three numbers are in the ratio 1:2:3 and the sum of their cubes are 7,776. Find the number.

a)   2, 3, 4

b)   6, 12, 18

c)   10, 15, 20

d)   7, 14, 21

13. Find the length of each side of cube, if its volume is 1,331 cm^3.

a)	21 cm	b)	31 cm
c)	51 cm	d)	11 cm

14. Difference of two perfect cubes is 665.If the cube root of smaller of the two numbers is 4, then find the cube root of the larger number.

a)	8	b)	9
c)	6	d)	11

15. Evaluate $\sqrt[3]{8} + \sqrt[3]{.027} + \sqrt[3]{.064}$.

a)	2.7	b)	3.6
c)	2.5	d)	2.04

16. Evaluate $\{3^2 + \sqrt[2]{(14)^2}\}^3$.

a)	378	b)	126
c)	12,167	c)	13,782

17. Evaluate $\sqrt[3]{(-32768) \times 21952}$.

a)	896	b)	-126
c)	-698	c)	-256

18. The smallest number by which 576 should be multiplied to make it a perfect cube is _____.

a)	9	b)	3
c)	6	d)	18

19. The smallest number by which 26,136 should be multiplied to make it perfect cube is _____.

a)	11	b)	7
c)	77	c)	10

20. Divide the number 4374 by smallest number so that the quotient is a perfect cube. Also find the cube root of quotient.

a)	12, 6	b)	4, 8
c)	12, 36	d)	6, 9