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Worksheet: Cube and Cube Roots

1. A cube has a surface area of 150 cm^2 . Find its side length (approximate).
2. A metal cube of side 6 cm is melted and recast into smaller cubes of side 2 cm. How many small cubes are formed?
3. Find the cube root of $64 \times 125 \times 8 \times 27$
4. Find the cube root of 125×64
5. The volume of a cube is 1331 cm^3 . Find the length of its edge.
6. The side of a cube is doubled. How many times will its volume increase?
7. Find the smallest number by which 392 must be divided to get a perfect cube.
8. A number multiplied by itself three times gives 729. Find the number.
9. A cube's volume increases from 27 cm^3 to 64 cm^3 . Find the percentage increase in its edge.
10. If $a^3 = 729$, find the value of a^2 .
11. A cube-shaped ice block of side 10 cm is cut into 1000 smaller cubes of equal size. Find the side of each small cube.
12. Find the cube root of 17576 by the prime factorisation method.
13. A metal cube of side 5 cm is melted to form small cubes each of side 1 cm. How many small cubes are formed?
14. Find the cube root of the product of 64 and 125.
15. Find the smallest number by which 648 must be multiplied to make it a perfect cube.
16. Without finding the cube, find the unit digit of $93^3 + 47^3$.
17. A cube has a volume of 512 m^3 . Find its surface area.
18. If the cube of a number ends in 1, what will be the unit digit of the number?
19. The cube root of a number is 9. Find the number.
20. The cube root of a number is 12. What will be the cube root of its $1/27$ th part?