Cube and Cube Roots

1. Is 9000 a perfect cube?

2. By which smallest number should 42592 be divided so that the quotient is a perfect cube?

3. Show that 46656 is a perfect cube.

4. By which smallest number should 704 be divided to obtain a perfect cube?

5. Find the cue root of 9197.

6. Show that 384 is not a perfect cube.

7. By which smallest number should 648 be multiplied so that the product is a perfect cube?

8. Find the number whose cube is 27000.

 What is the smallest number by which 288 must be multiplied so the product is a perfect cube?

9. Find the cube of 4/5.

10. Show that 0.001728 is a cube root of a rational number.

11. Find the sides of a cubical box whose volume is 64 cm^3.

12. If the surface area of a cube is 486 cm^2, find its volume.

13. Find the volume of a cube whose surface area is 96 cm2.

14. Write all the digits that would appear as the last digits of their respective cubes.

15. Show that if a number is doubled, then it cube becomes eight times the cube of the given number.

16. Is 343 or 243 a perfect cube?

17. Find the cube root of 8000.

18. Find the cube root of 13824.

19. 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.

20. Show that 1728 is a perfect cube.

21. What is the number whose cube is 216?

22. Find the smallest number by which 68600 must be multiplied to get a perfect cube.

23. Which smallest natural number should divide 1188 so that the quotient is a perfect cube?

24. Is the cube of 4913 an odd number? Why?

25. Is the cube of 132651 an even number? Why?