Practice Questions

1. Find the cube roots of the integer:
   a) -474552
   b) -2744000
2. How many digits will be there in the cube root of 46656?
3. Find the value of following cube roots: $\sqrt[3]{27\ X\ 2744}$
4. Find the cube root of a) $\frac{0.008}{0.125}$ b) $\frac{686}{1024}$
5. Prove that if a number is trebled then its cube is 27 times the cube of the given number.
6. The volume of a cube is 9261000 m^3. Find the side of the cube.
7. The volume of a cubical box is 474.552 cubic meters. Find the length of each side of the box.
8. Three numbers are to one another 2:3:4. The sum of their cubes is 0.334125. Find the numbers.
9. Given that $\sqrt[3]{99} = 4.626$, find the value of $\sqrt[3]{792}$.
10. Given that $\sqrt[3]{31} = 3.141$, find the value of $\sqrt[3]{\frac{248}{216}}$.
11. Find the volume of a cube, one face which has an area of 64 m^2.
12. Find the volume of a cube whose surface area is 384 m^2.
13. Three numbers are to one another as 2:3:4. The sum of their cubes is 33957. Find the numbers.
14. What is the smallest number by which 243000 must be divided so that the quotient is perfect cube?
15. Evaluate:
    a) $\sqrt[3]{\frac{0.027}{0.008}} \div \sqrt{\frac{0.09}{0.04}} - 1$
    b) $\sqrt[3]{64\ X\ 729}$
    c) $\sqrt[3]{1000} + \sqrt[3]{0.008} + \sqrt[3]{0.125}$
16. Is 53240 a perfect cube? If not, then by which smallest natural number should 53240 be divided so that the quotient is a perfect cube?