

Class -VIII

Case Study on Cubes and Cube roots:

- A. Avradeep and Arnab were students of class-8. Before examination, they were doing revision on the topic 'Cubes and Cube Roots'. They found a statement in the book given as follows:

"The cube root of a number $911xy$ is 45".

There were certain questions on the basis of above statement which are listed below, answer them.

1. The required number is:

- (a) 91105 (b) 91125 (c) 91115 (d) 91155

2. The difference between y and x , is:

- (a) 2 (b) 1 (c) 0 (d) 3

3. The product of x and y , is:

- (a) 25 (b) 10 (c) 52 (d) 7

4. If $\frac{x}{y} = k$, then the value of k , is:

- (a) 4 (b) 2 (c) 0.4 (d) 2.5



- B. The class VIII class teachers of SCMS decided to award chocolates to students for three values discipline, cleanliness and regularity in attendance. The number of students getting chocolates in the three categories are in the ratio 3:4:5. If the product of the number of students in three categories is 202500.



Based on the above information answer the following questions :

1. How many students will get the chocolates for the each three values discipline, cleanliness and regularity in attendance respectively?
2. Find the total number of chocolates that will be given as a prize.
3. If the values of each chocolate is ₹35, then find the total cost of chocolates.