

- 9. What number has its cube $\frac{512}{2197}$?
- 10. Which of the following numbers are cubes of rational numbers? Also, find the rational numbers.

(<i>i</i>)	343	9261	(iii)	1125
	729	(<i>ii</i>) $\frac{9201}{10648}$		4096

EXERCISE 4.2

	Use Cordova Sr	mart Class Software on t	he smart board in class to do	Exercise.			
1.	Find the cube root of the following numbers by prime factorisation method :						
	• • • • • • • • • • • • • • • • • • • •	<i>ii</i>) 17576 <i>ii</i>) 46656	(<i>iii</i>) 39304	(<i>iv</i>) 54872			
2.	. Three numbers are in the ratio 2 : 3 : 5. The sum of their cubes is 34560. Find the numbers.						
3.	Find the cube root of 35937 by using (a) Prime factorisation method (b) Without finding prime factor						
	Find the cube root of the following numbers without finding prime factors :						
		<i>i</i>) 5832	(<i>iii</i>) 19683	(<i>iv</i>) 13824			
5.	Evaluate :						
	(i) $\sqrt[3]{\frac{1331}{9261}}$. (i	<i>i</i>) ∛–3.375	(<i>iii</i>) $\sqrt[3]{-216} \times \sqrt[3]{-15625}$	(<i>iv</i>) $\sqrt[3]{\frac{-2197}{4096}}$			
6.	. The volume of a cubical bo	ox is 19683 m ³ . Find its	s edge.				