



#### Cubes and Cubes Roots Ex 4.4 Q15

**Answer :**

(i) Cube root using units digit:

Let us consider the number 226981.

The unit digit is 1; therefore, the unit digit of the cube root of 226981 is 1.

(ii) Cube root using units digit:

Let us consider the number 13824.

The unit digit is 4; therefore, the unit digit of the cube root of 13824 is 4.

(iii) Cube root using units digit:

Let us consider the number 571787.

The unit digit is 7; therefore, the unit digit of the cube root of 571787 is 3.

(iv) Cube root using units digit:

Let us consider the number 175616.

The unit digit is 6; therefore, the unit digit of the cube root of 175616 is 6.

#### Cubes and Cubes Roots Ex 4.4 Q16

**Answer :**

(i) Let us consider the number 226981.

The unit digit is 1; therefore, the unit digit of the cube root of 226981 is 1.

After striking out the units, tens and hundreds digits of the given number, we are left with 226.

Now, 6 is the largest number, whose cube is less than or equal to 226 ( $6^3 < 226 < 7^3$ ).

Therefore, the tens digit of the cube root of 226981 is 6.

(ii) Let us consider the number 13824.

The unit digit is 4; therefore, the unit digit of the cube root of 13824 is 4.

After striking out the units, tens and hundreds digits of the given number, we are left with 13.

Now, 2 is the largest number, whose cube is less than or equal to 13 ( $2^3 < 13 < 3^3$ ).

Therefore, the tens digit of the cube root of 13824 is 2.

(iii) Let us consider the number 571787.

The unit digit is 7; therefore, the unit digit of the cube root of 571787 is 3.

After striking out the units, tens and hundreds digits of the given number, we are left with 571.

Now, 8 is the largest number, whose cube is less than or equal to 571 ( $8^3 < 571 < 9^3$ ).

Therefore, the tens digit of the cube root of 571787 is 8.

(iv) Let us consider the number 175616.

The unit digit is 6; therefore, the unit digit of the cube root of 175616 is 6.

After striking out the units, tens and hundreds digits of the given number, we are left with 175.

Now, 5 is the largest number, whose cube is less than or equal to 175 ( $5^3 < 175 < 6^3$ ).

Therefore, the tens digit of the cube root of 175616 is 5.

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