Cubes and Cubes Roots Ex 4.5 Q16

Answer :

The number 0.27 can be written as $\frac{27}{100}$.

Now

$$\sqrt[3]{0.27} = \sqrt[3]{\frac{27}{100}} = \frac{\sqrt[3]{27}}{\sqrt[3]{100}} = \frac{3}{\sqrt[3]{100}}$$

By cube root table, we have:

$$\sqrt[3]{100} = 4.642$$

$$\therefore \sqrt[3]{0.27} = \frac{3}{\sqrt[3]{100}} = \frac{3}{4.642} = 0.646$$

Thus, the required cube root is 0.646.

Cubes and Cubes Roots Ex 4.5 Q17

Answer :

The number 8.6 can be written as $\frac{86}{10}$.

Now

$$\sqrt[3]{8.6} = \sqrt[3]{\frac{86}{10}} = \frac{\sqrt[3]{86}}{\sqrt[3]{10}}$$

By cube root table, we have:

$$\sqrt[3]{86} = 4.414 \text{ and } \sqrt[3]{10} = 2.154$$

$$\therefore \sqrt[3]{8.6} = \frac{\sqrt[3]{86}}{\sqrt[3]{10}} = \frac{4.414}{2.154} = 2.049$$

Thus, the required cube root is 2.049.

Cubes and Cubes Roots Ex 4.5 Q18

Answer :

The number 0.86 could be written as $\frac{86}{100}$.

Now

$$\sqrt[3]{0.86} = \sqrt[3]{\frac{86}{100}} = \frac{\sqrt[3]{86}}{\sqrt[3]{100}}$$

By cube root table, we have:

$$\sqrt[3]{86} = 4.414 \text{ and } \sqrt[3]{100} = 4.642$$

$$\therefore \sqrt[3]{0.86} = \frac{\sqrt[3]{86}}{\sqrt[3]{100}} = \frac{4.414}{4.642} = 0.951 \text{ (upto three decimal places)}$$

Thus, the required cube root is 0.951.

********** END **********