Number System Ex 1.3 Q1

Answer :

(i) Given decimal is 0.39

Now we have to convert given decimal number into the $\frac{p}{q}$ form

Let $\frac{p}{q} = 0.39$

$\Rightarrow \frac{p}{q} = \frac{39}{100}$

Hence, $\boxed{0.39 = \frac{39}{100}}$

(ii) Given decimal is 0.750

Now we have to convert given decimal number into $\frac{p}{q}$ form

Let $\frac{p}{q} = 0.39$

$\Rightarrow \frac{p}{q} = \frac{39}{100}$

Hence, $\boxed{0.39 = \frac{39}{100}}$

(ii) Given decimal is 0.750

Now we have to convert given decimal number into $\frac{p}{q}$ form

Let $\frac{p}{q} = 0.750$

$\Rightarrow \frac{p}{q} = \frac{750}{1000}$

$\Rightarrow \frac{p}{q} = \frac{75}{100}$

$\Rightarrow \frac{p}{q} = \frac{3}{4}$

Hence, $\boxed{0.750 = \frac{3}{4}}$

(iii) Given decimal is 2.15

Now we have to express the given decimal number into $\frac{p}{q}$ form

Let $\frac{p}{q} = 2.15$

$\Rightarrow \frac{p}{q} = \frac{215}{100}$

$\Rightarrow \frac{p}{q} = \frac{43}{20}$

Hence, $\boxed{2.15 = \frac{43}{20}}$

(iv) Given decimal is 7.010

Now we have to express the given decimal number into $\frac{p}{q}$ form

Let $\frac{p}{q} = 7.010$

$\Rightarrow \frac{p}{q} = \frac{7010}{1000}$

$\Rightarrow \frac{p}{q} = \frac{701}{100}$

Hence, $\boxed{7.010 = \frac{701}{100}}$

(v) Given decimal is 9.90

Now we have to find given decimal number into $\frac{p}{q}$ form

Let $\frac{p}{q} = 9.90$

$\Rightarrow \frac{p}{q} = \frac{990}{100}$

$\Rightarrow \frac{p}{q} = \frac{99}{10}$

Hence, $9.90 = \frac{99}{10}$

(vi) Given decimal is 1.0001

Now we have to find given decimal number into $\frac{p}{q}$ form

$\frac{p}{q} = 1.0001 \Rightarrow \frac{p}{q} = \frac{10001}{10000}$

Hence, $\boxed{1.0001 = \frac{10001}{10000}}$

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