



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

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

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

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

(ii) Given decimal is 0.750

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

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

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

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

(ii) Given decimal is 0.750

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

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

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

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

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

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

(iii) Given decimal is 2.15

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

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

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

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

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

(iv) Given decimal is 7.010

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

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

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

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

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

(v) Given decimal is 9.90

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

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

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

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

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

(vi) Given decimal is 1.0001

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

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

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

***** END *****