Decimals Ex 3.1 Q1

Answer :

(i) We have 8 hundredths.

$\therefore \frac{8}{100} = 0.08$

(ii) We have 2 tens, 9 tenths and 4 hundredths.

$\therefore 20 + \frac{9}{10} + \frac{4}{100} = 20 + 0.9 + 0.04$

$= 20.94$

(iii) We have 2 tens, 3 ones , 2 tenths and 6 thousandths.

$\therefore 23 + \frac{2}{10} + \frac{6}{1000} = 23 + 0.2 + 0.006$

$= 23.2006$

Decimals Ex 3.1 Q2

Answer :

i) Multiplying and Dividing 0.04 by 100, we get:

$$\frac{0.04\times100}{100} = \frac{4}{100} = \frac{1}{25}$$

Thus, fraction in the lowest form is $\frac{1}{25}$.

ii) Multiplying and Dividing 2.34 by 100, we get:

$$\frac{2.34\times100}{100} = \frac{234}{100} = \frac{117}{50}$$

Thus, fraction in the lowest form is $\frac{117}{50}$.

iii) Multiplying and Dividing 0.342 by 1000, we get:

$$\frac{0.342\times1000}{1000} = \frac{342}{1000} = \frac{171}{500}$$

Therefore, fraction in the lowest form is $\frac{171}{500}$.

iv) Multiplying and Dividing 17.38 by 100, we get:

$$\frac{17.38\times100}{100} = \frac{1738}{100} = \frac{869}{50}$$

Thus, fraction in the lowest form is $\frac{869}{50}$.

Decimals Ex 3.1 Q3

Answer :

i) In the given fraction, we have 2 tenths and 3 ones.

$\therefore \frac{23}{10} = 2.3$

ii) Let us first convert the given fraction to a proper fraction. We get:

$25\frac{1}{8} = \frac{201}{8}$

To convert $\frac{201}{8}$ into decimals, let us multiply the numerator and denominator separately by 125. We get:

$\frac{201\times125}{8\times125} = \frac{25125}{1000} = 25.125$

iii)By simplifying $39\frac{7}{35}$ we get

$39\ \frac{7}{35} = 39\frac{1}{5}$

Now let us first convert the fraction to a proper fraction. We get:

$39\frac{1}{5} = \frac{196}{5}$

Now to convert $\frac{196}{5}$ into decimals, let us multiply the numerator and denominator separately by 2. We get:

$\frac{196\times2}{5\times2} = \frac{392}{10} = 39.2$

iv) Let us first convert the given fraction to a proper fraction. We get:

$15\frac{1}{25} = \frac{376}{25}$

To convert $\frac{376}{25}$ into decimals, let us multiply the numerator and denominator separately by 4. We get:

$\frac{376\times4}{25\times4} = \frac{1504}{100} = 15.04$

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