



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:

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

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

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

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

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

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

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

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

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

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

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:

$$\frac{201 \times 125}{8 \times 125} = \frac{25125}{1000} = 25.125$$

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:

$$\frac{196 \times 2}{5 \times 2} = \frac{392}{10} = 39.2$$

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:

$$\frac{376 \times 4}{25 \times 4} = \frac{1504}{100} = 15.04$$

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