

Rational Numbers Ex 1.8 Q5

Answer:

The L.C.M of the denominators (2 and 4) is 4.

So, we can write $\frac{1}{4}$ as it is.

Also,
$$\frac{1}{2} = \frac{1 \times 2}{2 \times 2} = \frac{2}{4}$$

As the integers between the numerators 1 and 2 of both the fractions are not sufficient, we will multiply the fractions by 20.

$$\therefore \frac{1}{4} = \frac{1 \times 20}{4 \times 20} = \frac{20}{80}$$

$$\frac{2}{4} = \frac{2 \times 20}{4 \times 20} = \frac{40}{80}$$

Between 20 and 40, there are 19 integers. They are 21, 22, 23, 24, 25, 26, 27....39, 40.

We can take any 10 of these.

Rational Numbers Ex 1.8 Q6

Answer

L.C.M of the denominators (2 and 5) is 10.

We can write:

$$\frac{-2}{5} = \frac{-2 \times 2}{5 \times 2} = \frac{-4}{10}$$

and
$$\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10}$$

Since the integers between the numerators $\left(-4 \text{ and } 5\right)$ of both the fractions are not sufficient, we will multiply the fractions by 2.

$$\therefore \frac{-4}{10} = \frac{-4 \times 2}{10 \times 2} = \frac{-8}{20}$$

$$\frac{5}{10} = \frac{5 \times 2}{10 \times 2} = \frac{10}{20}$$

These can be written as:

We can take any 10 of these.

Rational Numbers Ex 1.8 Q7

Answer:

The L.C.M of the denominators 5 and 4 of both the fractions is 20.

We can write:

$$\frac{3}{5} = \frac{3 \times 4}{5 \times 4} = \frac{12}{20}$$

$$\frac{3}{4} = \frac{3 \times 5}{4 \times 5} = \frac{15}{20}$$

Since the integers between the numerators 12 and 15 are not sufficient, we will multiply both the fractions by 5.

$$\frac{12}{20} = \frac{12 \times 5}{20 \times 5} = \frac{60}{100}$$

$$\frac{15}{20} = \frac{15 \times 5}{20 \times 5} = \frac{75}{100}$$

There are 14 integers between 60 and 75. They are 61, 62, 63......73 and 74.

We can take any 10 of these.