Problems on Division of Fractional Numbers

Example 1: Solve the equation dividing a whole number 1 with a faction number $3\frac{1}{3}$.

Solution: We need to convert our given whole number 1 into a fractional number by simply just adding 1 as its denominator, which gives $\frac{1}{1}$

The reciprocal of $\frac{1}{1}$ will remain same.

We need to convert our given mixed fractional number into a simple fractional number by simply so $8\frac{2}{3}$ becomes $\frac{26}{3}$.

Now we have to multiply both fractions $\frac{1}{1} \times \frac{26}{3}$.

As we already know we can simplify this by multiplying numerators and denominators with each other $\frac{1\times26}{1\times3}$ which gives $\frac{26}{3}$.

$\frac{26}{3}$ can be represented as mixed fractional number $8\frac{2}{3}$.

The result of dividing a whole number 1 with a mixed fraction $8\frac{2}{3}$ is $8\frac{2}{3}$.

Example 2: Solve the equation dividing a whole number 0 with a faction number $\frac{6}{5}$.

Solution: We need to convert our given whole number 0 into a fractional number by simply just adding 1 as its denominator but as we already know 0 divided by any number becomes 0. **The reciprocal 0 will be 0.**

Now we have to multiply $\frac{0}{0} \times \frac{6}{5}$

As we already know we can simplify this by multiplying numerators and denominators with each other $\frac{0\times6}{0\times5}$ which gives $\frac{0}{0}$.

The result of dividing a whole number 0 with a fraction $\frac{6}{5}$ is 0.