Multiplying Fractional Number by Fractional Number

For multiplying one fractional number with other fractional number, we have to multiply the numerator of first number with the numerator of second number and denominator of first number with the denominator of second number and then change the resultant fraction in its simplest form.

Let us understand with some examples:

Example 1: Multiply $\frac{1}{3}$ by $\frac{4}{7}$

Solution: $\frac{1}{3} \times \frac{4}{7}$

$$=\frac{4}{21}$$

Example 2: Multiply $\frac{3}{4}$ by $\frac{2}{5}$

Solution: $\frac{3}{4} \times \frac{2}{5} = \frac{1 \times 4}{3 \times 7} = \frac{3 \times 2}{4 \times 5} = \frac{6}{20}$