# FRACTIONS

## (Multiplying And Dividing Fractions)

**Multiplying Fractions**

To multiply two fractions, first multiply the numerators of both the fractions and then multiply the denominators to get the result.

**For example:** $\dfrac{1}{5} \times \dfrac{3}{4} = \dfrac{1\times3}{5\times4} = \dfrac{3}{20}$

To multiply a fraction with a whole number, first rewrite the whole number as a fraction by placing a one under it i.e in its denominator. Next multiply the numerators and denominators to get the result.

**For example:** $\dfrac{1}{5} \times 3 = \dfrac{1}{5} \times \dfrac{3}{1} = \dfrac{1\times3}{5\times1} = \dfrac{3}{5}$

**Dividing Fractions**

To divide two fractions, multiply the reciprocal of the divisor fraction by the dividend fraction to get the result.

**For example:** $\dfrac{1}{3} \div \dfrac{2}{5} = \dfrac{1}{3} \times \dfrac{5}{2} = \dfrac{1\times5}{3\times2} = \dfrac{5}{6}$

To divide a fraction with a whole number, first rewrite the whole number as a fraction by placing a one under it i.e in its denominator. Next divide both the fractions.

**For example:** $\dfrac{1}{3} \div 5 = \dfrac{1}{3} \div \dfrac{5}{1} = \dfrac{1}{3} \times \dfrac{1}{5} = \dfrac{1\times1}{3\times5} = \dfrac{1}{15}$