RATIONAL NUMBERS

HANDOUT 3/3

<u>Multiplication of Rational Numbers:</u>

Product of two Rational Numbers is always a rational number.

$$\frac{a}{b} \times \frac{c}{d} = \frac{a\,c}{b\,d}$$

<u>Multiplicative Inverse :</u>

If a is a non zero rational number $\frac{1}{a}$ is the multiplicative inverse of a .

Product of a Rational Number and its Multiplicative inverse is 1.

Division of Rational Numbers:

*If m and n two **rational numbers** such that n $\neq$ 0, then the result of **dividing** m by n is the **rational number** obtained on multiplying m by the reciprocal of n. we write m ÷ n. Thus m ÷ n = m × 1/n.*