## Padio and Paoportions

Ratio: A gatio is a companison between two quantities expressed as

Eg. If these are 3 apples and 2 oranges, the satio of apples to aronge is

3:2

Proportions:-

A proportion states that two ratios are equal.

a - c

b d.

Cross Multiplication Rule:-

axd = bxc

It is used to find the missing value in a proportion

Paoblem 1:-

Simplify the ratio: 36:48

Solutions :-

find the GCD of 36 and 48, which is 12

Divide both team by 12:

36:48 = 3 je 3:4 12 12 4

Ars : 3:4

Problem 2: - find the missing value in a proportion

3 = 2

Solution :-

3x16 = 4xx

48 = 4x

 $\alpha = \frac{48}{4}$ 

2=12

So value of x is 12 in ear 8 = x