Basic Concepts:- This chaper of Comparing quantities has five Sub-topics as mentioned below

- 1. Ratio
- 2. Percentage
- 3. Profit and Loss
- 4. Discount

5 Compound Interest.

We shall discuss these topics one by one.

1. <u>Ratio</u>: 2t means Comparing two grantities of Similar nature. (measured in the Same Unit). Ratio in Converted into a fraction on a:b means (a)

Mote: The value of a ratio is not changed if both its terms are multiplied or divided by the same number

Cont-lg-2

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Percentage: - Per cent means out of hundred!

The symbol weed to denote percent is %

eg 10% = \frac{10}{100} = \frac{1}{10} = 0.1

25% = \frac{25}{100} = 0.25 etc.

So from above, we noticed that percent can be converted into a fraction or in a hatio as well as.

eg. 40% = ho or 40:100 or 4:10

3. Profit and Loss: det us explain its Concept by means of an example. Suppose I purchased an article for Rs 500 and Sold it at 550 ie. Rs 50 more. This more amount in Called the profit.

on the other hand if we sell it for Rs 450 ie. Rs 50 less than this Rs 50 will be the Loss. The amount which we have inverted in purchasing

Cont lg-3

Cont-19-4

4. <u>Discount</u>: - Student, you might have seen on festivals that shopkedes offers a heavy discount so that the sale in increased. Discount in a type of hebate given by the shopkeder to the Customer. i.e taking less amount than the marked price (which is written on the article).

det is discuss in detail.

Marked Price (M.P): The printed price of

an article in Called the M.P. It is

also Called the List price (L.P) or usual

price.

Cont-19-5

Discount: The deduction done on the M.P. in Called discount. The shopkeeper generally announce the discount in percentage. Anyhow, but it is always calculated on the M.P. or L.P.

Het Price: The difference between the M.P. and Discount in Called Net-price or Sale price It is also called discounted price.

5. Compound Interest: - Before discussing about Compound interest, let us discuss about Simple interest. It we are, the interest Calculated over principal for certain time and Certain hate. We call this interest as Simple interest. There is a short way to Calculate Simple interest ie, by using formula.

Cont-19-6