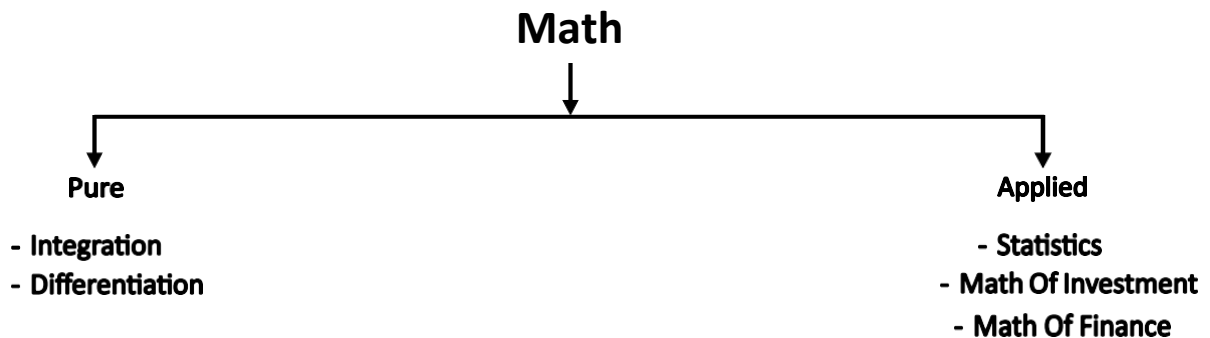


LEC.1:



Math Of Finance: (Related To Money)

1- Investment: you invest money to get return.

2- Loan: you borrow money and pay interest.

➡ Contract components:

1- Borrowed Money → (P).

- Called: present value or principal

2- Interest rate → (i):

3- Time → (t) :

- Must be in years

- Converted Term

➡ They are used to calculate the Interest Value.

Interest Value (I):

$$= p \times i \times t$$

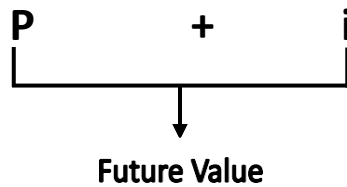
Term → Time Period. (T)

- Term is given in the questions.

- If the term given is in (years) then $t = T$.

- If the term is given in months , then $t = \frac{T}{12}$

Loan → Borrowed money + Interest

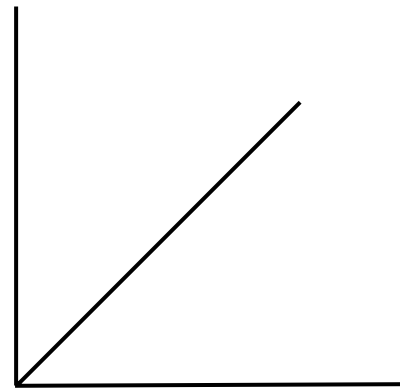


Types of interest :

1- Simple 2-Discount 3- Complex

1- Simple interest:

- Small
- Slow Increasing rate.



2- Complex Interest:

- Large / Accumulated
- Fast Increasing rate.

