

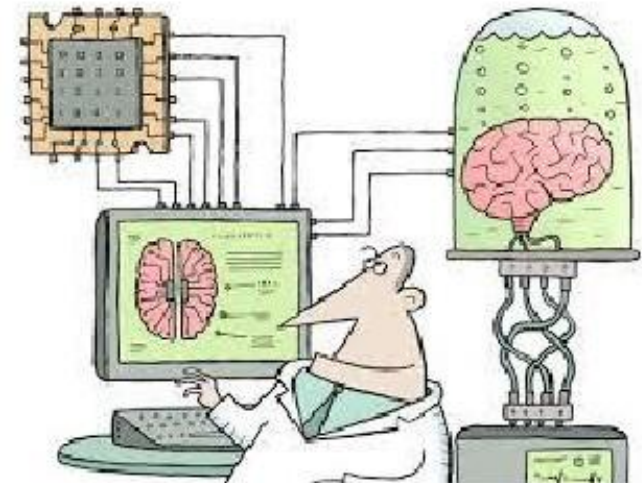
PEA305

Analytical

Skills 1

Lecture #0

Breaking the ice



Course Details

- LTP - 2 1 0 [Two lectures, One Tutorial per week]
- **Text Book**
 - ✓ Quantitative Aptitude by Dr.R S Aggarwal
- **Reference Book**
 - ✓ Quantitative Aptitude by M Tyra
 - ✓ Quantitative Aptitude by Abhijit Guha

Course Assessment Model

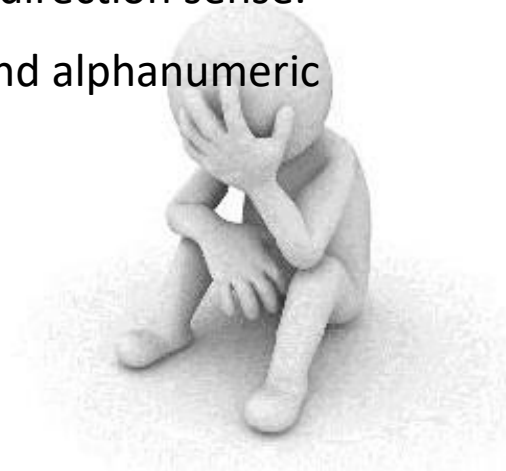
Marks break up

• Attendance	15
• CA	30
• MTE (MCQ)	15
• ETE (MCQ)	40
• Total	<hr/> 100

- MTE & ETE to be done on OMR sheets
- All tests will be based on MCQ.

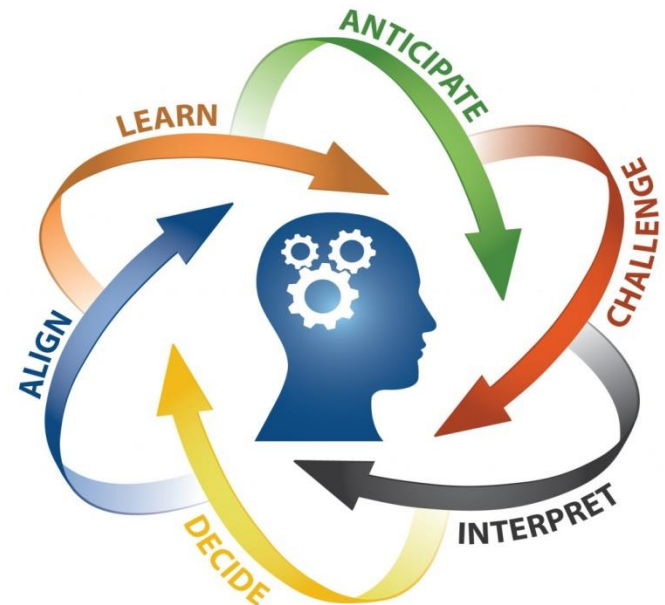
Course Outcomes

1. demonstrate procedural fluency with number system and mathematical operations to solve the stated problems.
2. Select an appropriate approach to solve real life problems related to percentage, profit and loss.
3. use the concepts of permutation, combination and probability to handle different situation.
4. apply the concepts learnt to solve the questions of ratio and proportion
5. solve the reasoning aptitude problems such as blood relation, direction sense.
6. observe the data given and interpret it on the given number and alphanumeric series.



Let us look around...

Why every organization takes Quantitative Aptitude Tests before hiring any future employee...



Right Decision Making

- Mental Alertness
- Ability to quickly interpret data
- Establish logical relationship
- Arrive at the correct conclusions
- Make the right judgment

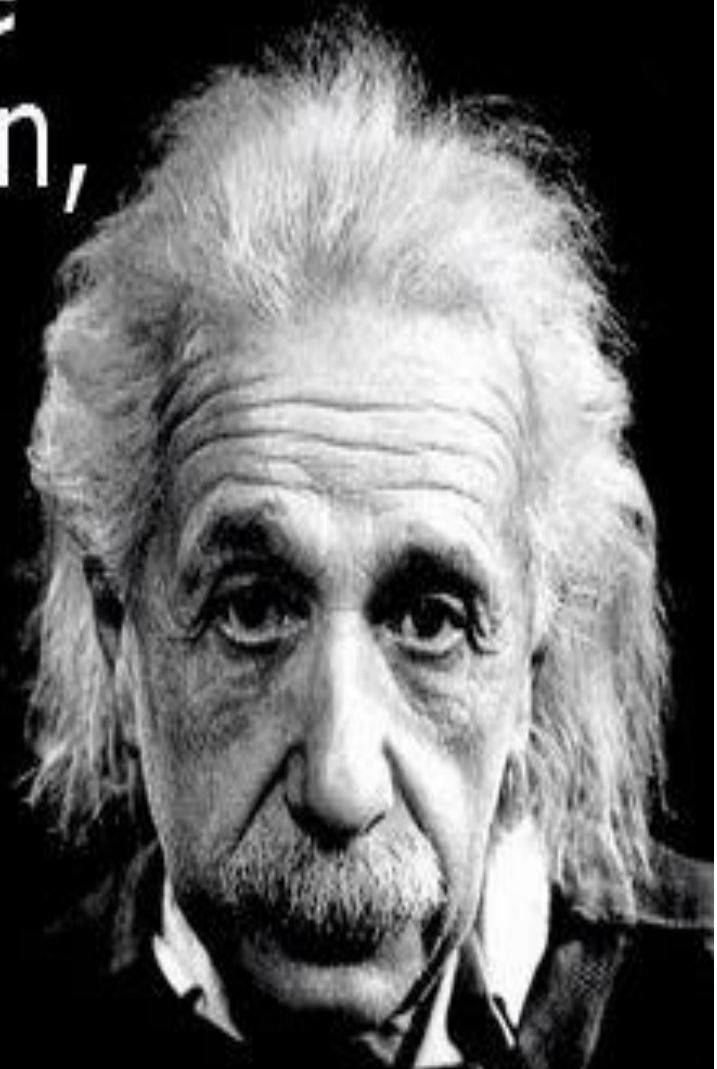
Organizations recruit
people who have
*Quick Mental
Abilities.*

How you will make your
mental ability Quick...!!!

Quick = Tricks

"You have to learn
the rules of the
game. And then,
you have to
play better
than anyone
else."

--Albert Einstein



How much time you will take to find unit digit of

$$625^{317} \times 341^{491}$$

-
- ✓ 1 minute...???
 - ✓ 2 minutes...???
 - ✓ 5 minutes...???
 - ✓ 10 minutes...???



Well...!!! It will not take more than
10 SECONDS

And What about this
MULTIPLICATION...!!!

$$\begin{array}{r} 35 \\ \times 35 \\ \hline ? ? ? ? \end{array}$$

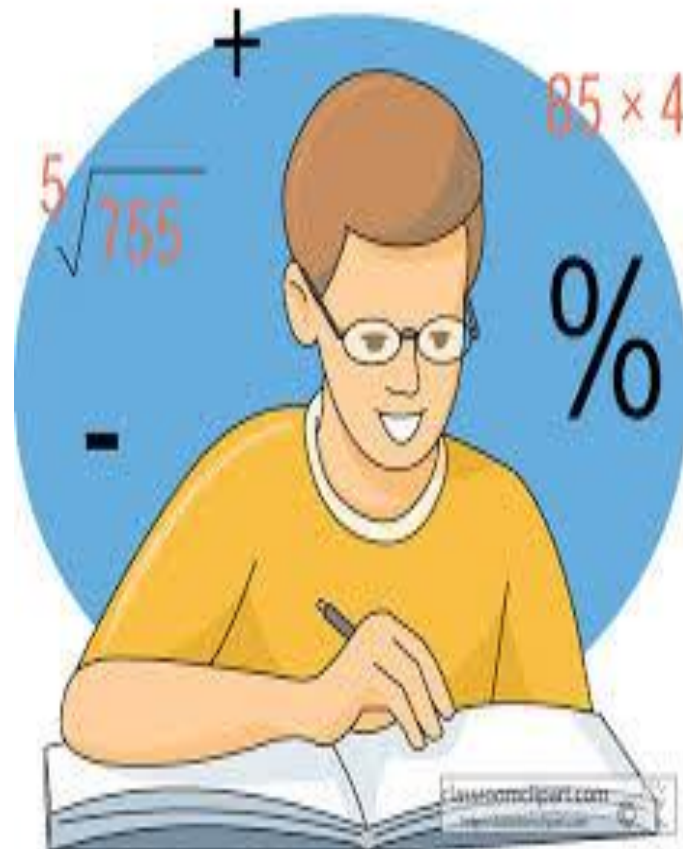
-
- ✓ 5 minute...???
 - ✓ 10 minutes...???
 - ✓ 15 minutes...???
 - ✓ 20 minutes...???



Again...!!! It will not take more than
40 SECONDS.

The course contents

- Number System
- Average
- Percentage
- Profit & Loss
- SI and CI
- Number Series
- Alphabet Series
- Coding and Decoding
- Ratio & Proportion
- Allegation or Mixture
- Permutation & Combination
- Probability
- Direction Sense
- Blood relation



What do we need to know?



Why $x^0=1$?

What do we need to know?

You sold two plots at same price. On first you make profit of 10% and on second you loss 10%.

What is your net profit or loss...???

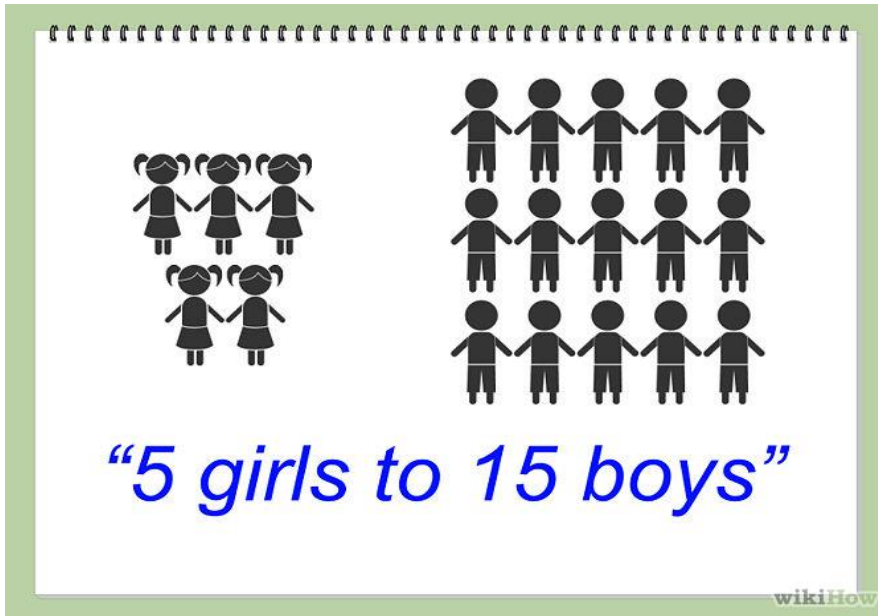
No Profit No Loss....???

Noooooooooo.

We will play with Profit-Loss concept.



Ratio and Proportion



$$= 5:15$$

$$= 1:3$$

Mixture and Alligation

Cheap

10 lit.



Expensive

2 lit.



Mix them Both

$10+2=12$ lit.



What do we need to know?

This course PEA305 : Analytical Skills-1

- Ability to efficiently solve the company specific Quantitative Aptitude Tests.
- Ability to prioritize and manage Time.
- Ability to efficiently analyze data.



*Lets Get
Started!*

Next Class: NUMBER SYSTEM

