

# Peoples Foundation for Scientific Socio Economic Development (PeFSSSED)

Estd : Dec 10, 2001

Regn No. Society : 1689/2002

Trust [Mumbai] : FF-25581

C-301, Minoo Minar, Veera Desai Rd, Andheri (W), Mumbai-400053

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Development is Freedom

Walking miles to win smiles...

## EVENT DOCUMENT

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<b>Event Title</b>	<b>Logical Reasoning and Quantitative Aptitude.</b>		
<b>Venue</b>	Chhatrapati Shivaji School (Dharavi)	<b>Conducted On</b>	11 <sup>th</sup> -18 <sup>th</sup> Feb 2012
<b>Participants</b>	Hippu SKN, Raunaq P, Dhiraj S, Deepti G, Saibaba N, Utkarsh C.		
<b>Related Project</b>	<b>Dharavi Child Talent Enhancement Project</b>		
<b>Document drafted by</b>	Dhiraj S	<b>Drafted on</b>	30 <sup>th</sup> Mar 2012
<b>Document reviewed by</b>	Hippu SKN	<b>Reviewed on</b>	3 <sup>rd</sup> Apr 2012
<b>Remarks</b>			

-Detail description of the event-

*Reasoning allows us to ask fundamental questions in life and get profound answers. Obvious things in the surrounding may have simple, yet powerful underlying reasons. When the apple fell from the tree, Newton asked the simple questions 'why' and reasoned the same out. What evolved out of it were theories of gravitation physics. Almost all scientific principles are a result of reasoning skills of human minds. When facts are linked with reasoning it gives us enormous deductive power, which can be used to see the unseen.*

*Logical and analytical reasoning forms an important part of any profession course. A good aptitude makes a person not only excel in the course, but also mentally healthy and dynamic in life. With the aim of infecting the young minds with logical and analytical reasoning skills at the early level of education PeFSSSED, in conjunction with UDAAN (CSR wing of Geometric Global) conducted a session on "Logical Reasoning and Quantitative Aptitude" for the class of VIII and IX at Chhatrapati Shivaji School of Dharavi.*

The event started with a brief on what the terms Logical Reasoning (LR) and Quantitative Aptitude (QA) mean. Initially all the students didn't seem to understand the topic, but later examples from real life, and some small puzzles made them understand what we were talking about.

After the introduction and explanation of the topic, each student was provided with a question paper containing 15 questions related to LR and QA. Students were given 30 minutes of time to solve these questions after which the papers were collected. Since the question paper was in English, each question was translated and explained to the other mediums which included Hindi, Marathi and Urdu.

Each of the 15 questions were designed to be of different types to enable students to think in varied faculties of thoughts. There were questions on simple mathematical numerals, number series, percentage, probability and geometry. Questions on logical reasoning were put as well. Also, there was question on graphical logical reasoning.

After the exam papers were collected, the answer to each question was discussed and students were guided on the ways to think logically. Making students understand some of the answers were pretty difficult, but we managed to do it by being a little patient and making them understand one thing at a time.

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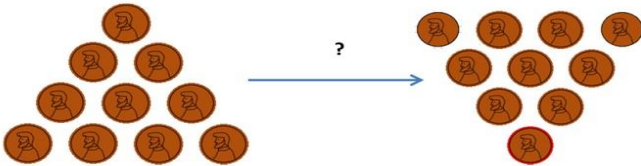
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UDAAN – PeFSSSED joint Initiative

A Session on Quantitative and Logical Reasoning

1. How many coins needs to be moved to make the below triangle inverted

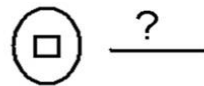
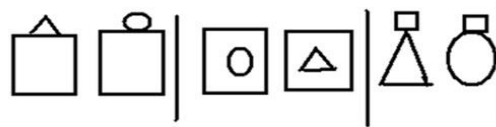


2. Move only TWO match sticks to create SEVEN squares.



3. If you have FOUR people in a room and each person shakes hands with every other person exactly once, how many total handshakes happen?
4. In two years' time my father will be exactly three times as old as I am now. My father is thirty-seven. How old am I?  
a. 13 b. 14 c. 15 d. 12 e. 16
5. Ra-One travels towards north 7 km, then turns towards left and travels towards west for 3 km, then towards left and travels for 7 km. How far is he from the starting point?
6. Fill the series: 27 64 125 216 343 \_\_\_\_
7. In a school, 40% of the enrolled students are boys and 80% of the boys are present on a certain day. If 1152 boys are present, the total number of students in the school is \_\_\_\_  
a. 1440 b. 2880 c. 3600 d. 5760
8. In a row of children, Raj is fifth from the left & Ravi is sixth from the right. When they exchange positions, Raj will be thirteenth from the left. What will be Ravi's position from right?  
a. Fourth  
b. Fifth  
c. Thirteenth  
d. Fourteenth

9. Which of the following figures (A to D) completes the series?



- a. b. c. d.

10. In a certain code, "JOVIAL" is written as "LJAOIV" and "LEFT" is written as "TLFE". How is the "LOUNGE" written in that code?  
a. NGOULE  
b. NGELOU  
c. GELOUN  
d. ELGONU
11. If one is six feet tall, s/he is in the basketball team. Ravi is 5 ft 6 in tall. Is he in the Basketball team?  
a. True b. False c. Can't say
12. If two laborers do a work in 6 days, in how many days four laborers can do the same work?  
a. 2 b. 3 c. 6 d. 12
13. If perimeter of a circle and square are same – which occupy more area?  
a. Circle b. Square c. Same for both d. Can't say
14. If a coin is tossed twice what is the chance that both the times there will be heads?  
a. 1/2 b. 1/3 c. 1/4 d. Can't say
15. If one thread burns in 10 mins, how do u measure 5 min using the thread?

Ans:

Students were thrilled to see new types of questions and new ways of solving those. Increasing the level of excitement about the LR and QA was what UDAAN team ultimately aimed.