



Logic Puzzles

Lesson Plan: Class 01 / PS / 33



Overall goal of the lesson	Children will learn to play a type of logic puzzle finding squares and learn to count and solve them systematically.
Prior knowledge required	

MODULE 1: **Module time:** 35 minutes

Goal:	Learn to systematically count, invoke critical thinking
Description:	Introduce finding squares puzzle
Material required	Physical: 1. One copy of the worksheet per child. 2. Writing material to solve the worksheet: pencil and eraser. Electronic: PPT Presentation
Procedure Summary	1. Distribute the worksheets to the children. 2. Use the presentation to discuss the puzzles
Procedure Details	1. Read out the introduction to the word 'puzzle'. We won't spend too much time on this. The puzzle is about counting squares. 2. Begin with a quick revision of the concept of 'squares'. Read out the text on the slides. 3. Read out Puzzle 1. Ask students to write the answer on their worksheet, for Puzzle 1 4. Give the answer to puzzle 1. Explain the answer for those who did not solve it correctly. 5. Do the same for Puzzle 2. 6. Show Puzzle 3. Ask students to try solving it. It's likely that most of them will say there are 4 squares, since they will miss out the larger square. 7. Show the answer to Puzzle 3. Using the animation, explain how there are 5 squares 8. Show Puzzle 4. Ask students to try solving it. Here there are only 2 squares, an inner one and an outer one. 9. Show the answer to Puzzle 4. 10. Show Puzzle 5. Ask students to try solving it. 11. In this case, before giving out the answer, go through steps of solving. Begin with the inner square. As seen in Puzzle 3, there are 5 squares (4 small squares, 1 outer square). 12. Now, move attention to the outer square – similarly, there are 5 more squares. 13. Add 5 and 5 to get 10. 14. Explain method: Find all squares of different sizes either starting with the largest or the smallest, from one corner. Add all the squares of different sizes. Examples: Find squares of size 1 unit, 2 units, 3 units etc.
Activities	Answer to Activity 1 (Puzzle 6): 7; 3 big squares, 4 small squares in the lower square Answer to Activity 2 (Puzzle 7): 6; 2 big squares, 4 small squares in the right hand square
Info. Broadcast	Children learn how to systematically count