

Mathematics

Activity #8: *Logic of the Round Table*

Objective 17: Problem Solving and Reasoning

In this activity, students use deductive reasoning skills to solve problems.

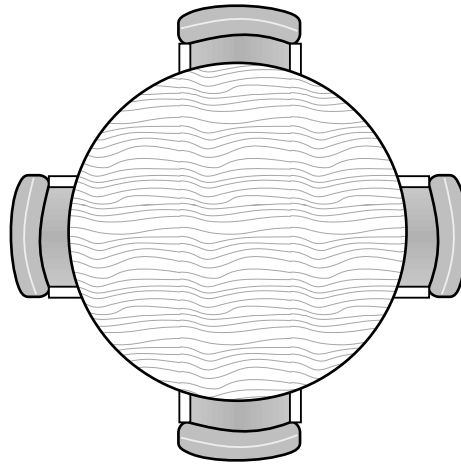
Description: Using clues and diagrams, students discover where people are sitting at a round table.

► **Directions**

1. Assign students to groups of 3 or 4.
2. Distribute copies of the activity shown on the following page. Have students read the facts given in each problem and then determine the answers. (It is understood that all the people in the stories face the center of the table.)
3. Review the answers with students.
Answers: 1. Alex is telling the story.
2. Eugene is wearing green.
4. Have each group come up with a new round table logic problem.
5. Each group should trade problems with another group. Then the members of each group work together to solve the new problem. If the problem can't be solved with the clues given, the problem should be returned to the original group for revision.

Logic of the Round Table

1. Alex, Beto, Christine, and Dolores are sitting at a round table. One of them is telling a story to Dolores. Who is telling the story?
 - Beto is sitting across from Christine.
 - Alex is sitting on Beto's right.
 - The student telling the story is sitting across from Dolores.



2. Eugene, Francine, George, and Hilda are listening to a musician play "Greensleeves." One of the students is wearing green. Who is wearing green?
 - Eugene is sitting on Francine's left.
 - George is sitting between Hilda and Francine.
 - The student wearing green today sits on Hilda's right.