Problem-Solving Strategy: Use Logical Reasoning

Use logical reasoning to solve each problem.

1. Caren, John, Ty, and Rhianna are in a talent show. Their talents are telling a poem, playing the banjo, playing the guitar, and singing. Caren tells a poem. John does not play the banjo. Rhianna plays guitar. What talent does Ty perform?

   Show Your Work

2. Mary, Rhea, Susan, and Joanne sing 1 part in a harmony group. Joanne sings the lowest part, and Rhea does not sing the highest part. Susan sings the second lowest part. Who sings the second highest part?

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3. Four students are standing in line offstage, waiting to perform. Steven is directly in front of Larry. Jose is directly behind Aiko. Larry was the last person to get in line. In what order are the students standing?

   Show Your Work

4. Mrs. Jameson, Mr. Thomas, and Ms. O’Rourke are sitting in seats numbered 18-A, 18-B, and 18-C as they watch their children perform. Neither Mr. Thomas or Ms. O’Rourke are sitting in seat 18-A. Ms. O’Rourke is sitting next to Mrs. Jameson. In which seat is each person?

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