

In all puzzles below, please show your reasoning and provide full justifications. Just answers are not sufficient!

1. On the Island of Knights and Knaves, 15 of the island's inhabitants stood in a line. Each of them with the exception of the first person said: "The person directly in front of me is a knave," while the person standing first in the line said: "Everyone standing behind me is a knave." How many knaves stood in the line?
2. One day, several inhabitants of the Island met in a room and three of them made the following statements. First person: "There are no more than three of us in the room. Each of us is a knave." Second person: "There are at most four people in the room. Not every one of us is a knave." Third person: "There are five people in the room. Three of us are knaves." How many people were in the room and how many of them were knaves?
3. On the Island of Knights, Knaves, and Tourists, you come across three men. You know that one is a knight, one is a knave, and one is a tourist, but you don't know who's who. You are allowed to ask these three gentlemen two yes-or-no questions. They will all answer you, one at a time, with either a "yes" or a "no." How can you determine the true identities of these fellows?
4. Four notorious thieves named Rickey, Lou, Maury and Ty are accused of theft at El Segundo military base. Each makes a statement. Rickey: "Lou is guilty." Lou: "Maury is guilty." Maury: "Ty is guilty." Ty: "Either Rickey or Maury is guilty, but not both. Each innocent suspect has told the truth, and each guilty suspect has lied. Name the culprits.