

## SOLUTIONS

## Deduction Problem 1: The Seven Witches

Sunday's witch asked for beauty, Wednesday's asked for wealth (verse 2), Friday's asked for diamonds(verse 5). Broomhilda asked for health (verse 2), and the following day Morgana wished to be queen (verse 3). Broomhilda made her wish on Monday, and Morgana Tuesday. By elimiation, the wish for teet was made Thursday, and this wish was made by Greta (verse 5). Hannah didn't ask for diamonds or fame (verse 6), so she didn't wish on Friday or Saturday. Since Samantha made her wish before Hannah (verse 6),
Hannah wished on Wednesday for wealth, and Samantha wished on Sunday for beauty. Drusella did not wish for fame (verse 4), so she wished for diamonds on Saturday and, by elimination, Jolene is the witch that wished for fame on Friday. In summary:

Sun: Samantha, beauty
Mon: Broomhilda, health
Tues: Morgana, to be queen
Wed: Hannah, wealth
Thurs: Greta, teeth
Fri: Jotene, fame
Sat: Drusella, diamonds

## Deduction Problem 2: ESP

There are six possible orders of the three photos:
hat, dog, girl;
hat, girl, dog;
dog, girl, hat;
dog, hat, girl;
ginl, dog, hat;
girl, hat, dog.
Since no two guessed the same combination, four of these orders were guessed. Of the six possible orders, each order has two others that are completely different. Since each subject guessed at least one correct placement, one subject guessed all three correctly, and the other three guessed one placement correctly. The two not guessed, then, were the two that were completely wrong. These two were dog, hat, girl and hat, girl, dog. Neither dog nor hat, then, were in first place; girl was. Neither hat nor girl was in second place; dog was. By elimination, hat was in third place. The correct order, then, was GIRL, DOG, HAT.

## Deduction Problem 3: The Baffling Bobolinks

Since all blonde Bobolinks told the truth and all brunettes lied, everyone would have denied dying his or her hair. Matilda states that John says he did not dye his hair, so she is telling the truth; she is blonde, and all of her statements are truthful (although John may be lying in what he says to her). She states that she is innocent, and she is. Tom says that Matilda is lying, so he is lying. He is a brunette, and is lying when he says he killed his uncle; he is innocent. George says Tom is lying, and is telling the truth; he is blonde and, as he states, guilty of killing his uncle. Martha, who says she is guilty, is telling a lie, so she is brunette. John, who says he is not guilty, is telling the truth; he is blonde. In summary:
Matilda: blonde. John: blonde.
Martha: brunette. Tom: brunette
George: blonde, guilty

