

The Problem

Four couples on the faculty of Charlotte Public Schools hike together in the Smoky Mountains every spring. The men's names are Ken, Ernesto, Charles, and Dan. The women's names are Carmen, Eva, Dawn, and Kate. Use the following clues to determine each set of husbands and wives.

1. Dawn is Ken's sister.
2. Kate has two brothers, but her husband is an only child.
3. Dan was best man at Dawn's wedding.
4. The names of Carmen and her husband both begin with the same initials.



Strategies and Hints

1. List all of the possible combinations.
2. Make a table in which to record data.
3. State explicitly any assumptions you make.
4. Determine what is impossible as well as what is possible.