Problem-Solving Decisions: Explain Your Solution

Solve. Explain how you found your solution.

1. On June 1, Meg and John went swimming. If Meg swims every third day, and John swims every fifth day, when will both swim together on the same day?

2. Ryan has three different styles of jeans. He has four different plaid shirts he likes. He has two favorite sweaters. How many different outfits consisting of 1 pair of jeans, a shirt, and a sweater can Ryan wear using these items of clothing?

3. A cafeteria has two kinds of meat, three kinds of potato, four salads, and three desserts. How many different meals can you make if you choose one from each category?

4. Jackson has 18 tiles. How many ways can he arrange them in a rectangle?

5. Leona has 36 tiles. How many ways can she arrange them in a rectangle?