Problem-Solving Strategy: Use Logical Reasoning

**Problem** Jeremy, Erin, Mel, and Paco competed in the long jump. Their jump lengths were 9 feet, 10 feet, 11 feet, and 12 feet. Paco jumped the farthest. Erin jumped an even number of feet. Mel jumped farther than Jeremy. How far did they each jump?

1. **What were the four jump lengths?**
   
   9 feet, 10 feet, 11 feet, and 12 feet

2. **How can you use a table and logical reasoning to organize the facts?**

3. **How far did they each jump?**

   Paco jumped 12 feet, Erin jumped 10 feet, Mel jumped 11 feet, and Jeremy jumped 9 feet.

4. **Do your answers match all of the facts given in the problem? Explain.**

   Yes; 12 is greater than 9, 10, or 11; 10 is an even number; and 11 ≥ 9.