

Creative Problem Solving Homework Week 12

Name _____

1. Twenty chess players hold a tournament in which each player plays just one game with each of the other players. How many games are played altogether?

2. In a group of 30 high school students, 8 take French, 12 take Spanish and 3 take both languages. How many students of the group take neither French nor Spanish?

3. Six people participated in a checker tournament. Each participant played exactly three games with each of the other participants. How many games were played in all?

4. A baseball league has nine teams. During the season, each of the nine teams plays exactly five games with each of the other teams. What is the total number of games played?

5. When two people shake hands with one another, that counts as one “handshake”. Every person in a room shakes hands with each other person in the room exactly once. There are a total of 55 “handshakes”. How many people are in the room?

6. Thirty people took a trip to Europe to visit France, England, or Spain. Of this group, 16 visited France, 16 visited England, 11 visited Spain, 5 visited France and Spain, 5 visited only Spain, 8 visited only England, and 3 visited all three countries. How many visited only France?