***Handshake Problem***

***![C:\Users\Julia\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\GKX3P10J\MC900078742[1].wmf]()***

 How many handshakes will there be if 3 people shake hands, where each person shakes the hand of every person once? How did you get your answer? Show your solution on paper.

How many handshakes will there be if 4 people shake hands? 5 people? 6 people?

Organize your data in a table. Do you see a relationship in the numbers?

How many handshakes will there be if 50 people shake hands? How did you get your answer? What can you say about the relationship between the number of people in a group and the total number of handshakes? Describe the relationship in words or symbols.