Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_

##### **Handshake Activity #2**http://t3.gstatic.com/images?q=tbn:ANd9GcQXWaebz5RDmfMRWZ_SFrYMNb20fzAc5p91RKe6U-bm_JJlKJaifQ:www.staceyreid.com/news/wp-content/uploads/2012/06/agreement.png

**For each problem, complete the following information.**

Assume there are 10 people in a room, including you. Each person in the room must shake hands one time, and only time, with all the other people in the room.

How many handshakes will occur?

Understanding the problem:

What data or information is known? What is known?

What are the conditions?

Plan the solution: Show your plan for solving this problem.

Carry out the plan: Using your plan, show your work and your solution.

Review and discuss your solution: Reflect on your solution.

If there are 20 people in the room, how many handshakes will occur? If there are N (where N > 0) people in the room, how many handshakes will occur?

Understanding the problem:

What data or information is known? What is known?

What are the conditions?

Plan the solution: Show your plan for solving this problem.

Carry out the plan: Using your plan, show your work and your solution.

Review and discuss your solution: Reflect on your solution.

Reflections: Why are problems like these important to learn how to solve? How could this type of solution be of benefit to a carpenter, a chef, a teacher?