Name _____ Date _____ Period _____

Handshake Problem

With a partner, do the following.



Part 1:
This class has 27 students, including you. You must shake hands with everyone else in the room. how many hand will you shake? If there are N people in the room, how many hands will you shake (N > 0)?

Write a formula.

Understanding the problem:

What data is known?

What is unknown?

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:

Did you solve it correctly? If not, what was wrong?

Part 2

Given the number of people in this room. Each person in the room must shake hands one time, and only one time with that person. Each person must shake hands with everyone in the room. How many TOTAL handshakes will occur in the room? If there are N people in the room, how many handshakes will occur (N > 0)?

Write a formula.

Person	Shakes hands with # of people left in line