**UNDERSTANDING THE PROBLEM**

**INPUT:** WHAT IS THE UNKNOWN?In this case, the total # of handshakes

**PROCESS:**

**OUTPUT:**

**Handshake Exercise**

|  |  |
| --- | --- |
| **Person/NAME** | **Shake Hands with Number of people left in line** |
| **1.)** |  |
| **2.)** |  |
| **3.)** |  |
| **4.)** |  |
| **5.)** |  |
| **6.)** |  |
| **7.)** |  |
| **8.)** |  |
| **9.)** |  |
| **10.)** |  |
| **11.)** |  |
| **12.)** |  |
| **13.)** |  |
| **14.)** |  |
| **15.)** |  |
| **16.)** |  |
| **17.)** |  |
| **18.)** |  |
| **19.)** |  |
| **20.)** |  |

**Each person shakes hands with N (other person).**

***HINT (N will always equal N-1***

**Now add up the entire class number of handshakes from column #2 below. SHOW WORK!**

**Now complete these below. SHOW WORK!**

1. **For 10 people – the number of handshakes?**
2. **For 5 people – the number of handshakes?**
3. **For 2 people – the number of handshakes?**
4. **For N people?**