

THE HANDSHAKE PROBLEM

_____ (name)

35 people go to a party and shake everyone's hand exactly once.
How many handshakes are there?

1. Estimate how many handshakes there will be?

2. How many handshakes will there be for this many people? Draw the scene.

# of people	1	2	3	4	5
# of total handshakes					

3. Try it this way:

# of people	1	2	3	4	5	6	35
# of handshakes per person							
# of total handshakes							

4. How many handshakes would there be a party of 40 people?

5. If there were 253 handshakes at the party, how many people were there?