Handout: Problems with Handshaking

Is it possible for everyone in your group to shake a different number of hands?

What could go wrong?

1. What are the possible number of handshakes each person in your group could have?

   What is the biggest and what is the smallest possibility?

2. How many possibilities are there, compared to the number of members of your group?

3. Can all those possibilities happen at the same time?

4. If someone shakes NO hands, does that rule out any other possibilities?

   What about if someone shakes everyone's hand, does that rule out any possibilities? Try it!