

Discrete Math
Group HW #2
Learning to Count... Again
Due in Class, Monday Sept 20

1.8: #26 ("Justify your answer" means provide a counterexample or provide a complete proof.) Carried over from HW#1.

4.1: #40, 42 (Note that in general, "or" means inclusive or, i.e., one or the other or both.)

4.2: #6, 10

4.3: #36

Non-book #1

Suppose there is a party with at least two people. Prove that there must be (at least) two people who know the same number of other people there. (Assume "knowing" is symmetric so that two given people either both know each other or neither knows the other.)

Please include a **short report** of how your team worked. (did everyone attempt all problems in advance of the first group meeting? who did what? any issues addressed or needing to be addressed?)