

Math 2001 - Group Homework 1

- Familiarize yourselves with the Group Work Report form. Your group's work product will be the filled-in Group Work Report, along with solutions to the assigned problems. For now, these can both be handwritten, but must be written **neatly**. Turn both of these in on the due date.
- Elect a leader, a scribe and a presenter for this week for your group. The job of the leader is to keep the group on task and to fill in the Group Work Report. The job of the scribe is to record and write up everything to be handed in. The job of the presenter is to present any of these problems to the class, if necessary. The group leader should record on the Group Work Report who is taking each role. These roles will switch each week.
- For the rest of the meeting, the leader should record on the Report of Group Work any questions for your Instructor (anything your group was not able to resolve together), along with a basic narrative description of events of the meeting. Help the leader by suggesting how to briefly summarize what transpired, and wait for the leader to finish.
- **Main Task 1:** Allow each group member to ask questions on homework, reading and class notes. Continue until everyone understands all of the questions and everyone else's answers, and all questions and concerns have been resolved. If something is unresolved, put it on the list of questions for your Instructor.
- **Main Task 2:** Create summary notes for section 1.3 of the textbook, as we did in class for section 1.1. For homework, each of you should have already written down 2-3 main ideas from the section. Collate these, organize them, and add brief explanations or examples to create a document you can use for review later in the semester. Turn this in.
- **Main Task 3:** You have been given a deck of "set cards". Take a few minutes to examine the cards, then, as a group, answer the following questions.
 1. Some of the cards have errors in notation, or do not define a set. List the numbers of all such cards.
 2. List the card numbers of all of the cards that define the empty set.
 3. List the card numbers of all of the cards whose set has cardinality 1.
 4. List the card numbers of all of the cards whose set has cardinality 2.
 5. Some of the cards define the same set. List all of the pairs, triples, etc., whose sets are equal.
- **Main Task 4:** Do the following problems. You must do these problems together, and do not show up having done them already. Do not divide up the work. Instead, on each problem spend 1-2 minutes each thinking silently, then construct the solutions collaboratively on one sheet of paper, discussing as you go. Do multiple drafts if necessary. Do not move on to the next problem until everyone in the group is satisfied with the result. If you find yourself getting ahead of your group, then help guide your groupmates through the solution. If you find yourself getting behind, tell your groupmates you feel lost and ask questions.
 - 1.3.A.2
 - 1.3.A.6
 - 1.3.B.10
 - 1.3.C.16
- Before the meeting ends, help the leader make sure that the Group Work Report has been filled in and everyone has signed it. The scribe will take home the final solutions you have written together as a group and type them, or write them up neatly and turn them in. I recommend that the scribe send the final copy to the groupmates to proofread before submitting them.