

The teaching point of this project is to listen to your students and to help them extract a solution to a problem.

The problems from this project are all important problems to help us gain understanding of number theory. They are all problems that can be placed through out the elementary grades.

The problems have solutions but the solutions will also suggest procedures. The procedures could be learned and used to solve similar problems. Always be looking for connections between problems and the strategies used to solve them.

You will be assigned to a group and to one of the problem sets. You will probably want to solve the problems before it is time to teach but that is not necessary. **This is what you will do for this project:**

In class, each member of your group will work with a different table to solve one of the problems on the problem set or a similar problem provided. Your responsibilities at the table are:

Lead a discussion of the problem. Make sure everyone is given the opportunity to participate.

Listen to what your students have to say. You are only allowed to ask questions.

Write down the solution suggested by your students.

DO NOT lead your students to find your own solution. It is more important to have a partial solution that they do, than to have a complete solution given by you.

After class, every one is assigned to complete the solution set. Your group will

grade the problems sets.

record the grades and give them to the instructor.

write a solution set to be posted for everyone to see.

Grades Your grade will be based on completion of all the parts of the project, the quality of your solution set, and how well the class does on the problem solving midterm.