

**Instructions.** Write all answers clearly on one piece of paper, and put all group members' names on the top of the paper. If you talk, you must do so **very quietly!**

1. What property does the identity element of a group have?
2. How must the set of real numbers be modified in order to be a group under multiplication?
3. Besides having a binary operation, what are the names of the three properties a nonempty set must have to be a group?
4. Name or describe a group or set having elements that do not commute under multiplication.
5. How many inverses might an element of a group have?