

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!**

Time limit: 5 minutes.

1. Explain where the group is hiding inside of a ring.
2. (TRUE/FALSE) If R is a ring, then multiplication commutes in R .
3. (TRUE/FALSE) There exist rings with arbitrarily many multiplicative identities.