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. Write down three names of notations in which a permutation can be written or encoded.

2. (True/False) Every pair of permutations (from the same permutation group) commute.

3. (True/False) Two permutation cycles which have no numbers in common commute.

4. How is the order of a permutation obtained from its disjoint cycle form?

5. What is the standard way to split the set of permutations (on, say, $\{1, \ldots, n\}$ for $n \geq 2$) into two subsets of equal size?