

Day 9: Groups of Small Size

1. Whiteboard page 1.
 - All groups with one element are essentially the same. (Why?)
2. **Work on Day 9 Class Work. Leave 15 – 20 minutes for discussions.**
3. Whiteboard pages 2 and 3.
 - **Page 2:** Complete the table for $G = \{\varepsilon, a, b\}$ using the Sudoku property, starting with $ab = \varepsilon$.
 - **Page 3:** In homework, you'll prove $ab = \varepsilon$ *without* using the Sudoku property.
4. **Proof (Outline) of the Day:** Whiteboard page 4.
 - **Page 4a:** Label “at most once” and “at least once” in (1) and (2), respectively.