

Day 16: Isomorphisms

1. Whiteboard page 1.
 - Recall that $\langle g \rangle$ is the set of all integer powers of g .
2. **Work on Day 16 Class Work. Leave 20 minutes for discussions.**
3. Whiteboard page 2.
 - Addition in \mathbb{Z}_6 *feels like* multiplication in $\langle g \rangle$.
 - Let's give a more precise definition of "isomorphic."
4. Whiteboard pages 3 and 4.
 - **Page 4:** Again, addition in \mathbb{Z}_6 *feels like* multiplication in $\langle g \rangle$.
5. Whiteboard page 5.
6. **Proof of the Day:** Whiteboard pages 6 and 7.
 - Intuitively, this should be true since G and H are essentially the same group.