

Day 18: Homomorphisms, Part II

1. Whiteboard page 1.
2. **Work on Day 18 Class Work. Leave 15 – 20 minutes for discussions.**
3. Whiteboard page 2.
 - Label the domain U_{13} as G and the codomain U_{13} as H .
 - Fill in the other elements of the codomain (that are not in the image) one by one to emphasize the distinction between image and codomain.
4. **Proof of the Day:** Whiteboard pages 3 and 4.
 - Use page 3 to discuss the proof plan, labeling the diagram with $a *_G b$, ε_G , and a^{-1} .
5. Whiteboard page 5.
 - See Chapter 18 reading for more on the “image.”