## Week 2 Wednesday

## Anywhere

Turn to someone sitting near you who you haven't met before (or who you haven't talked to much before), and introduce yourself! Then discuss:

If you could live anywhere on this planet, where would you choose to live and why?

## GCDs and Modular Inversion

- 1. Which of the following integers is invertible mod 210?
- (A) 3
- (B) 4
- (C) 5
- (D) None of the above

- 2. How many divisions do we need to do till we see a remainder of 0 when we use the Euclidean algorithm to compute gcd(150, 90)?
- (A) 1
- (B) 2
- (C) 3
- (D) None of the above

3. Find Bézout coefficients for  $\gcd(150,90)$ .

4. Find an inverse of 54 mod 131, if possible.