# Math 465

**Mathematical Statistics** 

Day 1 – Introduction and review of Sets



### Introductions









### Please turn in a card with

- Your official name
- Your preferred name
- Your major
- Whether or not you are interesting in programming to solve probability problems in this class

(Yes = interested, No = not interested)

Draw a picture of yourself if I don't know you or if I already know you,
tell me one thing I should do in this class

# Syllabus and website

## Let's play a game

Pair up with someone you don't know.

Think of a number (any number)

When you both have a number in mind, reveal your numbers to each other.

If your numbers match, you win! If not, you lose 😊

### Overview of Class

Focus on the mathematical tools needed to solve statistics problems, not the context

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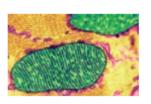
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#### Trending Topics



Suramin and Autism

May 2017

A small, randomized clinical trial showed that a single intravenous dose of the century-old drug suramin transiently improved core symptoms of autism spectrum disorder (ASD).

## Study Results

10 children with Autism were randomly assigned to new treatment or not.

Of the 5 who received the new treatment, 5 recovered.

Of the 5 who didn't receive the new treatment, 5 didn't recover

Review of sets: appendix C