

## Plan for WEFWOO

- Review for exam, studying and practicing for exams and APTs in Compsci 101
  - Why memorization doesn't help so much
  - Why familiarity does help
  - What's a flashcard for Compsci 101?
  - Bring writing utensils only, we provide reference
- Algorithms, Python, Idioms, Practice
  - How do you learn to speak a language?
  - How do you learn to use a computer language?

## Writing functions with formulae

<http://bit.ly/101fall15-929-1>

## Writing functions with formulae

<http://bit.ly/101fall15-midpractice-2>

- Using extra variables: can be really smart
  - Helps in making each line simple
  - Easy to correct if you've made a mistake
- See `triangleArea`, what about other math symbols and formula?
  - What do `+`, `-`, `*`, `/`, `%` do?
  - What about `math.sqrt` or `5**0.5` or `math.sin ...`

## Accumulating in a loop

- If you are going to return a string
  - Initialization, return value, how to "build it"
- If you are going to return an int (counter)
  - Initialization, return value, how to "build it"
- If you are going to return a list
  - Initialization, return value, how to "build it"

## Counting 'a's in a string, 'fox' in a list?

- **What Python functions/methods help**
  - If you forget, how can you recreate yourself?
  - See exam Python reference sheet
- **How to write acronym function?**
  - Write/sketch and share solution

## Basic File Processing

<http://bit.ly/101fall15-929-2>

## Basic File Processing

- **GroceryBagger.py, third question**
  - File processing: read as string, read line by line
  - Reading strings, how to .strip(), .split(), convert?
- **Being a good programming citizen**
  - Clean up after yourself with closing files
  - Remember that files are read a strings
  - How to convert to numbers?

<http://bit.ly/101fall15-midpractice-2>