S150 - Fraction class 2/22/2012 Announcements HWZ grades were emailed last - Next HW will be out in I week - Fricky - in class neview - Monday - midterm 1

- On individual submissions, must work alone.

- Pever look at someone else's code.

Functions versus methods (in a class) - Ontside of classes, no self variable - In Script class methods come after variable in I dot: print pair Sum ([[12,10,16,2], 15)

Derator overloading pt.\_\_mul\_ h\_str\_and\_-add\_ we are adapting already defined functions to work for our class. What about multiplication? 2 versions: (2, 3) \* (5, 1) = (2.5 + 3.1 = 13)(2,4) % 5 = (2 % 5, 4 % 5) = (10,20) Ability of program to behave differently obepending on context.

For \_mul\_, we'll use is instance to defect if the input is numeric or a point. Can also code \_\_rmul \_\_ to handle 3\*\* Point (2,3)

1 -2 = 3 = 4 A new class:

Python supports int and float, but

What are vationals? Fraction

Why useful? (what do we lose in floats?)

washingts

 $\frac{1}{3} = .3333$ 

We'll store fractions in reduced form. -Our class will be immutable. Methods: If XLY