MA111: Contemporary mathematics

Entrance Slip (due 5 min past the hour):

Blair and Devin see an ad for this apartment for \$700/mo. Blair is willing to pay \$425 per month for the master bedroom or \$300/mo for the other bedroom. Devin is willing to pay \$350/mo for the master bedroom, or \$325/mo for the other bedroom.



Is it reasonable to rent this place? Explain how or why not:

Who should get which room?

How much should each pay per month?

Schedule:

- HW Comp1-Rooms is due by 11:50pm on Thu Oct 29th, 2015
- Mini-exam 3 is in class, Thu Nov 5th, 2015
- Exam 3 is in class, Thu Nov 19th, 2015

Today we look at the trouble with splitting the bill

While we are passing out the worksheet...

Please turn in your entrance slips. We will do this every non-exam day.
Please bring your own 3x5 index cards.

• Someone explain why they shouldn't rent this place.

Someone explain why they should.

Someone who thinks they should rent... who pays how much for what?

Important concepts

• The value depends on who is asked

 Splitting the bill might not be even if people get different values from it

- The surplus is the amount of money leftover after everyone pays the most they are willing for what they get
- That there is a surplus is pretty amazing