

MA111: Contemporary mathematics

Turn the entrance quiz in as usual on an 3x5 index card. The question is on the worksheet: How long does this take?

	Name	Duration	Need to finish these first
M:	Make the pasta	34 minutes	(P) Put out the pots and pans
S:	Make the sauce	10 minutes	(P&G) Put out the pots and pans, and get groceries
B:	Make the bread	11 minutes	(P&G) Put out the pots and pans, and get groceries
L:	Make the salad	12 minutes	(P&G) Put out the pots and pans, and get groceries
P:	Put out pots and pans	3 minutes	(C&D) Clean counter, do dishes
C:	Clean counter	2 minutes	(nothing)
D:	Do dishes	33 minutes	(nothing)
G:	Get groceries	35 minutes	(nothing)

Schedule:

- Mini-Exam 4 is in class, Thu Dec 4th, 2014
- Exam 4 is Tue Dec 16th, 2014 from 3:30pm to 5:30pm

Today we have a pasta party

Important concepts

- **Tasks** have a **duration**
- Each task requires a person to spend that long doing it (uninterrupted)
- Tasks have **dependencies** that must be done first
- With one person, the total time is basically easy: add it up
- With multiple people we need a **schedule**
- Simplest schedule is a **priority list**- do them in this order

(well, every time you finish a task, check the priority list for a task that isn't done, but whose dependencies are done, and start working on it)

Exit quiz

- Turn the exit quiz in as usual on a 3x5 index card
- The question is on the worksheet:
- **Easy version:** find a way for 3 people to do the tasks more quickly than the “three heads” version
- **Hard version:** explain why it cannot be done faster than your way, even with four people!