MA162: Finite mathematics

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April 8, 2010

- HW C3 is due Sunday, Apr 11th, 2010.
- Exam 3 is Monday, Apr 12th, 5:00pm-7:00pm.
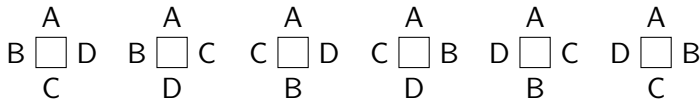
Today we will review for the exam.

6.4: Quiz review

(1a) There are 12 people, how many ways to select three of them with distinguished titles? (Same as horse race, dog show etc.)
$(12)(11)(10) = 1320$

(1b) How many ways to select without distinguished titles (Order does not matter) $\frac{12}{3}\frac{11}{2}\frac{10}{1} = 220$

(2a) Square table with no head (rotation does not matter), how many seating arrangements for 4 distinguished people:

A	A	A	A	A	A
B □ D	B □ C	C □ D	C □ B	D □ C	D □ B
C	D	B	D	B	C

(2b) What if two people must not sit next to each other?

A	A
B □ D	D □ B
C	C