

Math 42
HW12, Fall 2014
Due Mon Oct 20

(6.13) 1, 3, 8, 10, plus:

1. In the lunch special at the restaurant *Daily Dose of Dosa*, you can either order a vegetarian crepe with three vegetarian toppings (out of eight possible choices), or you can order a rice plate with a choice of two non-vegetarian toppings (out of six possible choices), but not both. How many possible lunch specials are there? Write your answer in choice notation, not as an actual integer, and briefly **JUSTIFY** your answer.
2. In California's Blotto Lotto game, a ticket consists of a choice of 6 regular numbers between 1 and 45 (order doesn't matter) and a second choice of 4 bonus numbers between 1 and 12 (order doesn't matter). How many possible Blotto Lotto tickets are there? Write your answer in choice notation, not as an actual integer, and briefly **JUSTIFY** your answer.