Kin 304 Extra Learning Checkpoint Problems for Lab Midterm #2 Preparation
We will review answers in lecture on July 22, 2013
Instructor: Dr. Dawn Mackey, Summer 2013

1) How would you conduct an analysis to determine if there is a difference in the percentage of employed and unemployed adults in Vancouver who report excellent health? In your interpretation of results, what statistics would you report?

2) Interpret these results:

	Drivers		Cyclists				
	N=200		N=350				
	n	%	n	%	Chi-Square	df	P-value
Speed limits are too slow	125	62.5%	140	40.0%	17.842	1	0.008

3) How would you conduct an analysis to address the following question: how much more likely are pregnant women to exercise 3x/week (yes/no) than non-pregnant women, when taking account of their age? In your interpretation of results, what statistics would you report?

4) Given that the dependent variable is "Do you regularly have itchy eyes" (1=Yes, 0=No), and the independent variable is "Do you smoke cigarettes now (cigsnow)" (1=Yes, 0=No), interpret these results:

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I.for EXP(B)	
								Lower	Upper
Step 1[a]	cigsnow	-1.070	.321	11.134	1	.001	.343	.183	.643
	Constant	.223	.224	.996	1	.318	1.250		

a. Variable(s) entered on step 1: cigsnow.

5) Assume you are given some experimental data about a dependent variable. If you are also given a mathematical equation that relates that dependent variable to some combination of independent variables and constants, what steps would you take to fit the equation to the experimental data, using Excel?

6) If you are given raw values for EMG from a set of experimental conditions, list the steps you would take to quantify the amount of EMG in each condition?