

Preview Material for Exam 1 - Spring 2002

A scientist is interested in testing whether emissions from cell phones are responsible for brain damage and low exam grades in Junior High school students. He proposes the following experiment to the National Institute of Mental Health (NIMH). "I will select 100 students. I will perform an MRI (brain scan) on each student at the beginning of the 5th grade. At the end of the 7th grade I will perform another MRI on each student, issue all the students cell phones, and call them 3 times per day for two years. At the end of the 9th grade I will perform a final MRI on each student. I will then compare the MRIs." The proposal was immediately rejected, and the scientist told not to apply again.

In a project involving a population of sandpipers (a shore bird) the following data were generated from an experiment designed to investigate the effect of clutch size (number of eggs laid) on the number of young that successfully hatch and survive to adulthood.

Clutch size	Number of survivors
1	1
2	2
3	3
4	3
5	4
6	2

Dr. Hamilton's cat, Mulan, characteristically seeks out a fireplace on a winter's evening. The closer the cat gets to the fire, the more she stretches her body.