

Final Exam Comments:

As usual, the final exam is divided into two parts:

Part I is closed book, closed notes, no calculator, etc. You should be familiar with this by now.

Part II is open book, open notes, calculator allowed, etc.

Part I will consist of two sections:

Section I is a series of problems/situations for which you will need to identify:

- 1) The correct test/procedure to use, and
- 2) Whether or not the test is directional.

Here is a simple example:

You want to know if the average mass blue whales is 160 metric tons. Somehow you manage to weigh 17 blue whales. How would you proceed?

Answer: Since you only have one sample here, you would do a one sample t-test. The test is not directional since you (probably) don't know anything about blue whales (in other words, you can't tell if 160 metric tons is more or less than what might be expected).

Incidentally, note that the directionality of the test is specified in the alternative hypothesis ($H_1: \mu \neq 160$, in this case)

Important: the tests/situations for which you need to identify the correct test/procedure can come from any part of the semester (this part of the final is comprehensive).

You will *not need* to perform tests/procedures from material covered by earlier exams, just identify when to use which test.

You may be presented with a situation ***which you do not know how to analyze*** (we didn't learn the procedure in our class). In this case you need to say that "we did not learn this procedure".

Section II is the usual short answer type format you have seen before and will only cover new material (material since the last exam).

Part II

Part II is similar to Part II on previous exams. You will need to do some calculations/etc. to answer various questions, do hypotheses tests, etc..

Part II covers only the material since the last exam (only new material).

As usual, the homework problems are probably a good place to start for Part II type problems.