

Prepare for the exam by carefully studying this list with reference to your notes, in-class activities, homework, and quizzes. Strive to master the concepts, explanations, and computational techniques for use in general.

**This list is preliminary: Some slight changes may be communicated
via email before the end of the day on Friday, Apr. 18.**

Percents (and some repeated material about decimals):

1. Use correct notation to convert AMONG decimals, percents, and fractions.
 - (a) This will include AGAIN demonstrating the following skills that appeared on Exam #2:
 - i. Convert a fraction to a decimal, and use the bar or ellipsis notation when appropriate.
 - ii. That a non-terminating, non-repeating decimal CANNOT be converted to a fraction.
 - iii. Convert a terminating decimal to a fraction.
 - iv. Convert a repeating decimal to a fraction, including when the decimal point must shift.
 - v. Round decimals to a specified position.
 - (b) It will also include these skills newly discussed since Exam #2:
 - i. Convert from a terminating percent to a decimal or to a fraction.
 - ii. Convert from a non-terminating percent to a decimal or to a fraction.
 - iii. Convert from a fraction to a percent, using ellipsis notation or rounding as instructed.
 - iv. Convert from a decimal to a percent, rounding if instructed.
 - v. Round to the nearest tenth, hundredth, etc. of a percent when asked.
2. Choose the larger of two quantities described as fractions, decimals, or percents, as in HW.
3. Answer problems such as "If x is 183.6% of y , is $x > y$ or $y > x$?"
4. Solve percent word problems that don't have any "real life" context.
5. Solve word problems with a context, including percent increase/decrease, discount/mark-up.
6. Be prepared for problems in which the "original" amount is unknown.

Statistics:

1. Create, label all the types of frequency and proportional graphs listed on the Summary.
2. Be prepared for graphs to require percents, as in textbook HW.
3. Tell what each type of graph is best for; make the best choice for a given setting.
4. Read and interpret graphical information, as in HW.
5. Find the mean, median, and mode(s) of a list of scores.
6. Find the mean or total when individual scores are not given (see HW).
7. Given a mean, find the new mean when a few new scores are added, deleted.
8. Find a mean when given the means for some groups of data, as in the cheerleader problem.
9. Create data that has specified mean, median, mode, or standard deviation behavior, as in HW.
10. Find the range or IQR of a given set of data.
11. Use given range or IQR values to find missing data, as in HW.
12. Create and label box-and-whisker plots for a given set of scores.
13. Use "Count & Balance" to solve problems. Use algebra when permitted.
14. Label and use the normal curve graph to solve word problems, both when you give a percent answer and when you find the correct value on the number line.

Bring a non-cell phone calculator (no text-based memory) for the exam.