What you should be able to do.

: Determine if a set is well-defined.
: Write all possible subsets (proper and improper) of a given set.
: Find a complement, a union, and an intersection.
: Draw a Venn diagram to illustrate two or three sets.
: Use the cardinal number formula.
: Apply Venn diagrams to "real-world" problems.
: Use de Morgan’s Laws.
: Use the Fundamental Principal of Counting.
: Calculate a factorial with your calculator and by expanding and simplifying.
: Make a tree diagram to list all possible outcomes.
: Calculate a permutation.
: Calculate a combination.
: Determine which method of counting needs to be used; Fundamental Principal of Counting, permutations, or combinations.