FRS Kouba Fundamental Principle of Counting

- 1.) Consider set A={1, 2, 3, ..., 200}.
  - a.) How many subsets does A have ?
  - b.) How many nonempty subsets of A contain only multiples of 10 ?
  - c.) How many nonempty subsets of A contain only even numbers ?
  - d.) How many nonempty subsets of A contain only multiples of 3 ?
  - e.) How many nonempty subsets of A contain only numbers which are perfect squares ?
- 1.) Consider set A={1, 4, 7, 10, ..., 229}.
  - a.) How many numbers are in set A?
  - b.) How many subsets does A have ?
  - c.) How many nonempty subsets of A contain only odd numbers ?
  - d.) How many nonempty subsets of A contain only even numbers ?
  - e.) How many nonempty subsets of A contain only multiples of 25 ?