I. Terminology & Notation (p.144):

- 1. Event "E" is any outcome(s) from an experiment *e.g.*, obtaining a "3" on the roll of one die, or getting a "full-house" in a poker hand
- 2. P(E) represents the Probability that event E occurs e.g., $P(\text{odd } \#) = 3/6 = \frac{1}{2}$ or 0.5 when rolling one die probability values are always between zero and one... P(E) = 0 means that event E is impossible P(E) = 1 means that event E is certain to occur
- 3. Sample Space is the listing (set) of all possible outcomes (or simple events in an experiment) e.g., $S = \{1,2,3,4,5,6\}$ when rolling one die
- 4. When using a frequency distribution, P(E) is equal to the relative frequency corresponding to E.

- II. \sim E, a.k.a. E complement (p.148):
 - 1. "~" is the logical negation symbol, thus...
 "~E" means "not E" (i.e., the event "E does not occur")
 - 2. $P(\sim E) = 1 P(E)$
- III. Examples (pp.152-154): #2,8,10,12,14,18,20

HW: pp.152-155 / #3,7,11,13,17,19,21,23 Read pp.155-169 (section 4.2)