Card problems.
For section 6.6, count the number of different ways.
For section 7.2, evaluate the probability of each event.

Ex1, Out of standard 52 card deck, randomly 1 card is selected.
   (a) diamond
   (b) face card
   (c) Ace or King
   (d) diamond or Ace

Ex2, Out of standard 52 card deck, randomly 2 cards are drawn.
   (a) Pair
   (b) 2 diamonds
   (c) same suite
   (d) not a pair
   (e) exactly 1 face card

Ex3, Out of standard 52 card deck, randomly 3 cards are drawn.
   (a) triple (3 of a kind)
   (b) pair but not a triple
   (c) 3 same suite
   (d) all different suite
   (e) at least one spade

Ex4, Out of standard 52 card deck, randomly 4 cards are drawn.
   (a) 4 of a kind (4 cards)
   (b) 2 pairs but not 4 of a kind
   (c) exactly 1 pair (not 2 pairs, not triple, not 4 of a kind)
   (d) all same suite
   (e) all different suite
   (f) triple (3 of a kind)

Ex5, Out of standard 52 card deck, randomly 5 cards are drawn.
   (a) full house
   (b) 4 of a kind (4 cards)
   (c) Flush (all same suite)
   (d) Straight
   (e) 2 pairs only, not triple, not full house
   (f) triple only, not full house, not 4 cards