Some Examples #1

Good sample spaces to describe:

a) Tossing a coin.
b) Tossing two coins.
c) Rolling a die.
d) Rolling two dice.
e) Election between two candidates.
f) Month of year and day of week of a birthday.

Some events as sets in toss of two coins:

a) Exactly one tail in toss of two coins.
b) Two tails
c) At least one tail.
d) An even number of tails.

Some events as sets in rolling two dice (a white one and a black one):

a) Sum of four. (or three)
b) Sum of seven. (or six)
c) Black die is odd.

Inclusion/Exclusion

a) Suppose 30% play soccer, 20% basketball, and 12% both. Probability of playing at least one?
b) Probability of rolling at least one six in rolling two dice?
c) One card is drawn. Probability of an ace or red card?
d) Two card are drawn. Probability smallest card is a queen? (View aces as high.)