## FST 6-1 thru 6-3 Quiz Review In class

- 1) Consider the sample space when 2 fair 6-sided dice are tossed.
- a) Find P(the sum is 11) =  $\frac{2}{36} = \frac{1}{18}$  b) Find P(the sum is 9 or the first die is a 3) 2(5,0)(6,5)3 9: 2(3,6),(4,5),(5,4),(6,3) 3: 2(3,1)(3,2)(3,3),(3,4),(3,5)(3,6)2(3,6)(3,2)(3,3)(3,4),(3,5)(3,6)(3,6)
- P(9) + P(3) P(5)  $\frac{4}{3} + \frac{1}{3} \frac{1}{3} = \frac{1}{3}$ 2) Let A be the event: It's snowing. Describe the complement of A.

- 3) Consider an experiment in which a coin is tossed 2 times.
- a) Write the experiment's sample space.

b) What is the probability of exactly 1 head showing up?

4) A test has 9 true-false questions and 7 multiple-choice questions each with 5 choices. What is the probability of answering all questions correctly if you randomly guess on each?

- 5) There are 9 photos to display on a wall.
- a) How may ways can the 9 photos be arranged?

b) How many ways can the photos be arranged if the family portrait must be displayed in the middle?