AP STATISTICS

(Section 5.2)

Supp	Suppose you toss one coin and then roll one six-sided die.					
a.	List the	e outcomes in	the sample spac	e		
b.	Find the probability of getting a head					
c.	Find th	ne probability o	of getting a 1, 2	or 3 on the	die	
d.	Find th	ne probability o	of getting a head	l or a five		
Rela	w is data		a statistics class	:		
		T . •	Seniors			
		Juniors		_		
M	ales	12 10	8 6			

b. Find the probability of randomly selecting a student who is not a junior male

- 3. Consolidated Builders has bid on two large construction contracts. The company president believes that the probability of winning the first contract (event A) is 0.6, that the probability of winning the second contract (event B) is 0.3 and that the probability of winning both contracts is 0.1.
 - **a.** Construct a Venn diagram that summarizes what you know about events A and B:

- **b.** Calculate the following probabilities:
 - i. $P(A \cup B)$
 - ii. $P(A \cap B)$
 - iii. $P(A \cap B^C)$
 - iv. $P(A^C \cup B)$
 - $\mathbf{v.} \qquad P\left(A^{C} \cap B^{C}\right)$