

BIOS 600 · Quiz 3.3: Basic Probability

Fall 2011

1. **Honor Pledge:** I have neither given nor received unauthorized aid on this assignment.
(Sign and print your name.)

2. Consider the population below. From each unit we have collected

$A = \text{School}$

$B = \text{Sports Preference}$

		School		
		UNC	DUKE	
Preference	Basketball	9	6	15
	Football	3	2	5
		12	8	20

Calculate the following

(a) $P(A = \text{UNC} \cap B = \text{Basketball})$

(b) $P(A = \text{UNC} \cup B = \text{Basketball})$

(c) $P(A = \text{UNC})$

(d) $P(B = \text{Basketball})$

(e) Are A and B independent?