

**Quiz 4 (Group) for Statistics 113**  
**Statistics and Society - Spring 1999**  
**Material Covered: Chapters 13,14,15 of notes**  
**For: 19th March**

Name 1 (please print): \_\_\_\_\_  
last first

Name 2 (please print): \_\_\_\_\_  
last first

Name 3 (please print): \_\_\_\_\_  
last first

Name 4 (please print): \_\_\_\_\_  
last first

\_\_\_\_\_

One ticket is drawn at random from each of the two boxes shown below:

(A) 

1	2	3
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(B) 

1	2	3	4
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(a) [2] One possible outcome is (1, 1).

The other eleven outcomes are: \_\_\_\_\_

(b) [2] The chance the number drawn from A is

*larger* than the number drawn from B is \_\_\_\_\_

(c) [1] The chance the number drawn from A is

*equal to* the number drawn from B is \_\_\_\_\_

(d) [1] The chance the number drawn from A is

*smaller* than the number drawn from B is \_\_\_\_\_

- (a) [2] One possible outcome is  $(1, 1)$ . The other eleven outcomes are:  $(1, 2), \dots, (3, 4)$ .
- (b) [2] The chance the number drawn from A is *larger* than the number drawn from B is **since three of the 12 outcomes have ticket from A larger than from B,  $(2, 1), (3, 1), (3, 2)$ , chance is:  $\frac{3}{12}$**
- (c) [1] The chance the number drawn from A is *equal to* the number drawn from B is **since three of the 12 outcomes have ticket from A equal to one from B,  $(1, 1), (2, 2), (3, 3)$ , chance is:  $\frac{3}{12}$**
- (d) [1] The chance the number drawn from A is *smaller* than the number drawn from B is **since six of the 12 outcomes have ticket from A smaller than from B,  $(1, 2), (1, 3), (1, 4), (2, 3), (2, 4), (3, 4)$ , chance is:  $\frac{6}{12}$**