

**Quiz 4 (Group) for Statistics 113**  
**Statistics and Society–Fall 2001**  
**Material Covered: Chapters 13,14,15 of Workbook and text**  
**For: Friday, 19th October**

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 below.

A 

2	2	3	4	4
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B 

1	2	3	3	6
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- (a) [1 point] The chance one of the tickets is 2 and the other is 3 is  
(circle closest one)  $\frac{3}{25} / \frac{4}{25} / \frac{5}{25} / \frac{6}{25} / \frac{7}{25}$ .
- (b) [1 point] The chance one of the tickets is 2 or the other is 3 is  
(circle closest one)  $\frac{7}{25} / \frac{9}{25} / \frac{11}{25} / \frac{13}{25} / \frac{15}{25}$ .
- (c) [1 point] The chance the sum of the tickets is 6 is  
(circle closest one)  $\frac{1}{25} / \frac{2}{25} / \frac{3}{25} / \frac{4}{25} / \frac{5}{25}$ .
- (d) [1 point] The chance ticket A is greater than ticket B is  
(circle closest one)  $\frac{6}{25} / \frac{7}{25} / \frac{8}{25} / \frac{9}{25} / \frac{10}{25}$ .
- (e) [1 point] The chance ticket A is greater than two times ticket B is  
(circle closest one)  $\frac{1}{25} / \frac{2}{25} / \frac{3}{25} / \frac{4}{25} / \frac{5}{25}$ .

(a) **7/25**

$$\frac{2}{5} \times \frac{2}{5} + \frac{1}{5} \times \frac{2}{5}$$

(b) **15/25**

$P(2) + P(3) - P(23)$  where

$$P(2) = \frac{2}{5} \times \frac{4}{5} + \frac{1}{5} \times \frac{3}{5}$$

$$P(3) = \frac{1}{5} \times \frac{3}{5} + \frac{2}{5} \times \frac{4}{5}$$

$$P(23) = \frac{2}{5} \times \frac{2}{5} + \frac{1}{5} \times \frac{2}{5}$$

(c) **4/25**

(3,3), (3,3), (4,2), (4,2)

(d) **10/25**

(2,1), (2,1), (3,1), (3,2), (4,1), (4,2), (4,3), (4,1), (4,2), (4,3)

(d) **3/25**

(3,1), (4,1), (4,1)