

**Quiz 6 (Group) for Statistics 113**  
**Statistics and Society–Spring 2000**  
**Material Covered: Chapters 21,22 of notes and text**  
**For: Friday, 14th April**

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

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

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

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

\_\_\_\_\_

It is found that 37 of 230 randomly selected people used Viagra.

- (a) [1] A *point* estimate of the population (true or actual) percentage of people who used Viagra is \_\_\_\_\_.
- (b) [2] The SE of the percentage is (circle closest one) **0.024** / **0.036** / **0.041** / **0.067** / **0.083**.
- (c) [1] A 68% CI for the percentage is \_\_\_\_\_.
- (d) [1] **True** / **False** There is a 68% chance that the particular 68% confidence interval you calculated will contain the true percentage.
- (e) [1] What if the 230 people had be stratified into males and females and a stratified random sample found that 37 of these people used Viagra? In this case, it (circle one) **is** / **is not** possible to construct a 95% confidence interval. Explain.

(a) [1] 0.161

(b) [2] **0.024**

(c) [1]  $0.161 \pm 0.024$  or (0.137,0.185)

(d) [1] **False** (A particular CI either contains or does not contain the true percentage.)

(e) [1] **is not** (Must use a simple random sample.)