

## AP Statistics Chapter 18 - 19 Review

**\*\*ANSWERS ONLY\*\*** for parts I and II (for explanations, please come in for tutorials)

### Part I – Free Response

- Possibly skewed to the left (since sample size  $< 30$ ), mean of 100 oz., standard deviation of 4.33 oz.
  - skewed to the left (the question asks for the shape of ONE sample – NOT the distribution of means for samples of size 80)
  - Roughly normal (since sample size  $> 30$ ), mean of 100 oz., standard deviation of 1.677 oz.
  - 0.0014
- "I" is more likely
- 668 people (that's using  $z^* = 2.326$ ... if you use  $z^* = 2.33$ , then  $n = 671$  people)
  - mean = 0.45, st dev = 0.02487
  - 0.9778 (be sure to show work and conditions!)
- [SORRY... CHECK YOUR NOTES FOR THIS ONE]**
  - (0.179, 0.275) **[DON'T FORGET TO INTERPRET THE INTERVAL AS WELL!]**
  - ???
  - 2048 (using  $z^* = 1.81$ )

### Part II – Multiple Choice

5. D    6. C    7. D    8. C    9. E    10. C
11. B    12. B    13. B
14. Only statement "c" is true
15. Only statement "c" is true