

Review

1a.) 20-parameter 19.6 - statistic

b.) 10% - parameter 8% - statistic

2.) Lowest Value, Q1, Q2 (median), Q3, Highest Value

3.) $IQR = 64$

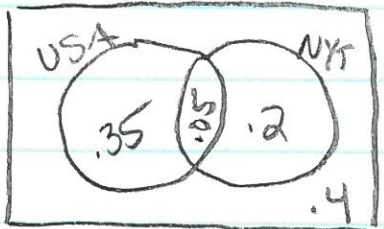
$$501 - 1.5(64) = 405$$

$$565 + 1.5(64) = 661$$

4.) .4

5.) a.) .28 b.) .89 c.) .72

6.) $.6 + .4 - .3 = .7$

7.) a.)  b.) .6

8.) a, c

9.) control, randomize, replicate

10.) convenience, voluntary response

11.)  (No pattern, random scattering)

- 12.) a.) categorical
b.) quantitative
c.) quantitative
d.) categorical

13.) stratified

14.) c

15.) $-33.4 + .882(90) = 45.98$

16.) c

17.) a.) 53% b.) 76% c.) 77%

18.) a.) .4 b.) $\sqrt{\frac{.4(.6)}{1200}} = .014142$

c.) .0002

~~19.)~~ e

$$20.) .02275$$

$$21.) 71.3 + 1.14(23) = 97.52$$

$$\cancel{22.)} .096079$$

$$23.) a.) 120 \quad b.) \frac{6}{\sqrt{9}} = 2 \quad c.) .00621$$

$$24.) \mu_{\hat{p}} = .22 \quad \sigma_{\hat{p}} = \sqrt{\frac{.22(.78)}{1000}} = .0131$$

$$.011008$$

~~25.)~~ Don't do

$$26.) 93, 95, 100, 107, 138$$

$$b.) IQR = 12$$

$$95 - 1.5(12) = 77 \quad 107 + 1.5(12) = 125$$

yes 138 is an outlier