AP Statistics Test B – Inference for Proportions – Part V*   Name _____

___ 1. We have calculated a confidence interval based upon a sample of $n = 200$. Now we want to get a better estimate with a margin of error only one fifth as large. We need a new sample with n at least...

A) 40   B) 240   C) 450   D) 1000   E) 5000

___ 2. A certain population is strongly skewed to the right. We want to estimate its mean, so we will collect a sample. Which should be true if we use a large sample rather than a small one?
   I.   The distribution of our sample data will be closer to normal.
   II. The sampling model of the sample means will be closer to normal.
   III. The variability of the sample means will be greater.

A) I only   B) II only   C) III only   D) I and III only   E) II and III only

___ 3. A relief fund is set up to collect donations for the families affected by recent storms. A random sample of 400 people shows that 28% of those 200 who were contacted by telephone actually made contributions compared to only 18% of the 200 who received first class mail requests. Which formula calculates the 95% confidence interval for the difference in the proportions of people who make donations if contacted by telephone or first class mail?

A) $(0.28 - 0.18) \pm 1.96 \sqrt{\dfrac{(0.23)(0.77)}{200}}$

B) $(0.28 - 0.18) \pm 1.96 \sqrt{\dfrac{(0.23)(0.77)}{200} + \dfrac{(0.23)(0.77)}{200}}$

C) $(0.28 - 0.18) \pm 1.96 \sqrt{\dfrac{(0.23)(0.77)}{400}}$

D) $(0.28 - 0.18) \pm 1.96 \sqrt{\dfrac{(0.28)(0.72)}{200} + \dfrac{(0.18)(0.82)}{200}}$

E) $(0.28 - 0.18) \pm 1.96 \sqrt{\dfrac{(0.28)(0.72)}{400} + \dfrac{(0.18)(0.82)}{400}}$

___ 4. Which is true about a 95% confidence interval based on a given sample?
   I.   The interval contains 95% of the population.
   II. Results from 95% of all samples will lie in the interval.
   III. The interval is narrower than a 98% confidence interval would be.

A) None   B) I only   C) II only   D) III only   E) II and III only

___ 5. A truck company wants on-time delivery for 98% of the parts they order from a metal manufacturing plant. They have been ordering from Hudson Manufacturing but will switch to a new, cheaper manufacturer (Steel-R-Us) unless there is evidence that this new manufacturer cannot meet the 98% on-time goal. As a test the truck company purchases a random sample of metal parts from Steel-R-Us, and then determines if these parts were delivered on-time. Which hypothesis should they test?

A) $H_0 : p < 0.98$
   $H_A : p > 0.98$

B) $H_0 : p > 0.98$
   $H_A : p = 0.98$

C) $H_0 : p = 0.98$
   $H_A : p < 0.98$

D) $H_0 : p = 0.98$
   $H_A : p \neq 0.98$

E) $H_0 : p = 0.98$
   $H_A : p > 0.98$

___ 6. We are about to test a hypothesis using data from a well-designed study. Which is true?
   I.   A small P-value would be strong evidence against the null hypothesis.
   II. We can set a higher standard of proof by choosing $\alpha = 10\%$ instead of 5%.
   III. If we reduce the alpha level, we reduce the power of the test.

A) None   B) I only   C) II only   D) III only   E) I and III only

Ap Statistics Test B Inference Proportions Part V

Lingsheng Yao

Ap Statistics Test B Inference Proportions Part V:

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