

Chapter 7 AP Statistics Practice Test

Section I: Multiple Choice *Select the best answer for each question.*

C 17.1 A study of voting chose **663 registered voters** at random shortly after an election. Of these **72%** said they had voted in the election. Election records show that only **56%** of registered voters voted in the election. Which of the following statements is true about the boldface numbers?

← Sample Statistic

← Population Parameter

- (a) 72% is a sample; 56% is a population.
- (b) 72% and 56% are both statistics.
- (c) 72% is a statistic and 56% is a parameter.
- (d) 72% is a parameter and 56% is a statistic.
- (e) 72% and 56% are both parameters.

C 17.2 The Gallup Poll has decided to increase the size of its random sample of voters from about 1500 people to about 4000 people right before an election. The poll is designed to estimate the proportion of voters who favor a new law banning smoking in public buildings. The effect of this increase is to

- (a) reduce the bias of the estimate.
- (b) increase the bias of the estimate.
- (c) reduce the variability of the estimate.
- (d) increase the variability of the estimate.
- (e) have no effect since the population size is the same.

Sample size has no effect on the bias of an estimate. BUT LARGER SAMPLE SIZES REDUCE THE VARIABILITY OF AN ESTIMATE.

C 17.3 Suppose we select an SRS of size $n = 100$ from a large population having proportion p of successes. Let \hat{p} be the proportion of successes in the sample. For which value of p would it be safe to use the Normal approximation to the sampling distribution of \hat{p} ?

- (a) 0.01 (b) 1/11 (c) 0.85 (d) 0.975 (e) 0.999
- for proportions, both np and $n(1-p)$ must be ≥ 10

$n \cdot p = 100 \cdot 0.85 = 85 \geq 10$
 $n \cdot (1-p) = 100 \cdot 0.15 = 15 \geq 10$

A 17.4 The central limit theorem is important in statistics because it allows us to use the Normal distribution to make inferences concerning the population mean

- (a) if the sample size is reasonably large (for any population).
- (b) if the population is Normally distributed and the sample size is reasonably large.
- (c) if the population is Normally distributed (for any sample size).
- (d) if the population is Normally distributed and the population variance is known (for any sample size).
- (e) if the population size is reasonably large (whether the population distribution is known or not).

CLT is not needed when the original distribution is normal; the distribution of the sample mean is always Normal in this case

B 17.5 The number of undergraduates at Johns Hopkins University is approximately 2000, while the number at Ohio State University is approximately 40,000. At both schools, a simple random sample of about 3% of the undergraduates is taken. Each sample is used to estimate the proportion p of all students at that university who own an iPod. Suppose that, in fact, $p = 0.80$ at both schools. Which of the following is the best conclusion?

- (a) The estimate from Johns Hopkins has less sampling variability than that from Ohio State.
- (b) The estimate from Johns Hopkins has more sampling variability than that from Ohio State.
- (c) The two estimates have about the same amount of sampling variability.
- (d) It is impossible to make any statement about the sampling variability of the two estimates since the students surveyed were different.
- (e) None of the above.

The larger the sample size then the smaller the variability

John Hopkins
 $N = 2,000$
 3% SRS $n = 60$
 $p = 0.80$

Ohio
 $N = 40,000$
 3% SRS $n = 1,200$
 $p = 0.8$

more variability

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Duane C. Hinders



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