

8 من إجمالي 10 نقطة

Statistics

2/2\* If a 95% confidence interval for a population mean is (45, 55), which statement is correct ✓

- A) 95% of the population values are between 45 and 55 ☐
- B) We are 95% confident the sample mean is between 45 and 55 ☐
- ✓ C) We are 95% confident the population mean is between 45 and 55 ☒
- D) 95% of the samples will have means between 45 and 55 ☐

0/2\* In hypothesis testing, the null hypothesis ( $H_0$ ) is ✗

- A) What the researcher wants to prove ☐
- B) Always contains an equality ( $=$ ,  $\leq$ ,  $\geq$ ) ☐
- C) The opposite of what the researcher believes ☐
- ✗ D) Both B and C ☒

الإجابة الصحيحة

- C) The opposite of what the researcher believes ☒

2/2\* The average height of all students in a school is 165 cm. This 165 cm is a ✓

- A) Statistic ☐
- B) Sample ☐
- ✓ C) Parameter ☒
- D) Estimate ☐

2/2 \* A z-test is used when 1 ✓

- ✓ A) The population standard deviation is known ☒
- B) The sample size is small ☐
- C) The data is not normally distributed ☐
- D) We have categorical data ☐

2/2\* As sample size increases, what happens to the standard error ✓

- A) Increases ☐
- ✓ B) Decreases ☒
- C) Stays the same ☐
- D) Becomes zero ☐

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