edX

Homework

Please answer the following questions. Be sure that you have downloaded the associated Excel file before beginning the homework. This lesson uses the **JulyHypothesisHW.xlsx** file.

*Remember that homework counts for 20% of your final grade. You are allowed **unlimited** attempts per question for homework problems. The main goal of homework is for you to practice and learn how to apply what you've learned in the content without worrying about getting the problem right the first time. Some homework problems may also provide hints or advice. Have fun!*

M5L1HW1

1/1 point (graded)

Suppose you want to determine if an Ebola vaccine is effective. Suppose 10% of people get Ebola. Let p = fraction of vaccinated people who get Ebola. Define an appropriate null and alternative hypothesis. What type of hypothesis is the alternative?

◯   Upper one-sided alternative hypothesis

◉   Lower one-sided alternative hypothesis ✔

⬚ Two-sided alternative hypothesis

Submit

M5L1HW2

1/1 point (graded)

A new cell phone chip vendor needs to prove that they are producing no more than 0.1% defective chips. Let p = fraction of defective chips produced by the new vendor. Define an appropriate null and alternative hypothesis. What type of hypothesis is the alternative?

⬚ Upper one-sided alternative hypothesis

◉ Lower one-sided alternative hypothesis ✔

⬚ Two-sided alternative hypothesis

Submit

M5L1HW3

1/1 point (graded)

You want to determine if the average home price in Katy, Texas, is different than the average home price in Spr,ing Texas. Define appropriate null and alternative hypothesses. What type of hypothesis is the alternative?

○   Upper one-sided alternative hypothesis

○   Lower one-sided alternative hypothesis

◉   Two-sided alternative hypothesis ✔

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