



[Course](#) > [Module 5: Hypothe...](#) > [Type I and Type II E...](#) > Homework

## Homework

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

### M5L2HW1

1/1 point (graded)

Suppose you want to determine if an Ebola vaccine is effective. In the previous lesson, you set up an appropriate null and alternative hypothesis and determined the type of hypothesis. Now, describe the Type I and Type II error and the form of the critical region.

If we conclude the vaccine is not effective when it is actually effective, we have made a:

☐ Type I error.

☒ Type II error. ✓

Submit

✓ Correct (1/1 point)

## M5L2HW2

1/1 point (graded)

A cell phone chip vendor needs to prove that they are producing at most 0.1% defective chips. In the previous lesson, you set up an appropriate null and alternative hypothesis and determined the type of hypothesis. Now, describe the Type I and Type II error and the form of the critical region.

If we conclude the chips produced are acceptable when they are not, we have made a:

☒ Type I error. ✓

☐ Type II error.

Submit

✓ Correct (1/1 point)

## M5L2HW3

1/1 point (graded)

You want to determine if the average home price in Katy, Texas, is different than the average home price in Spring, Texas. In the previous lesson, you set up an appropriate null and alternative hypothesis and determined the type of hypothesis. Now, describe the Type I and Type II error and the form of the critical region.

If we conclude mean home prices in the two cities are the same when they are actually different, we have made a:

☐ Type I error.

☒ Type II error. ✓

Submit

✓ Correct (1/1 point)

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