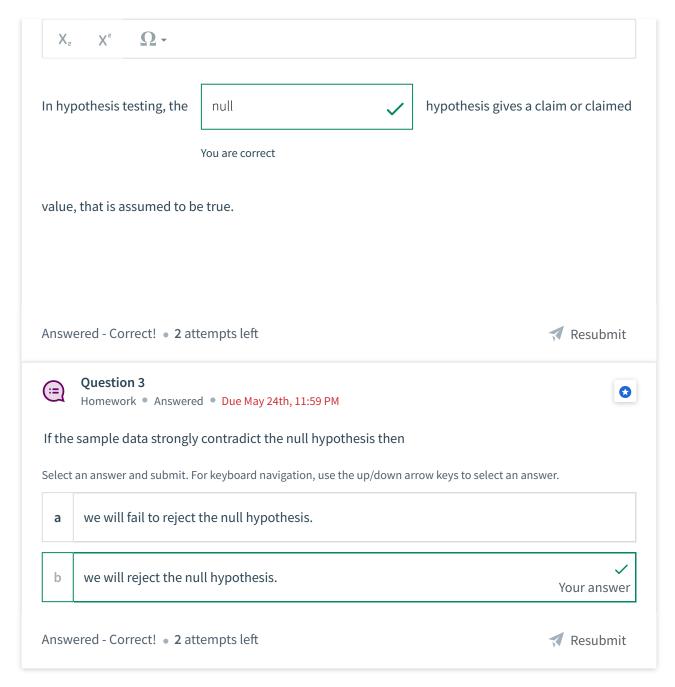


Question 2

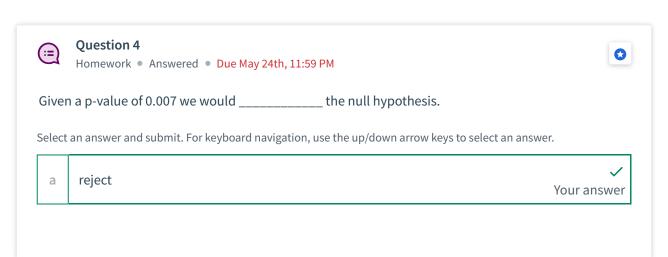
Fill in the Blanks

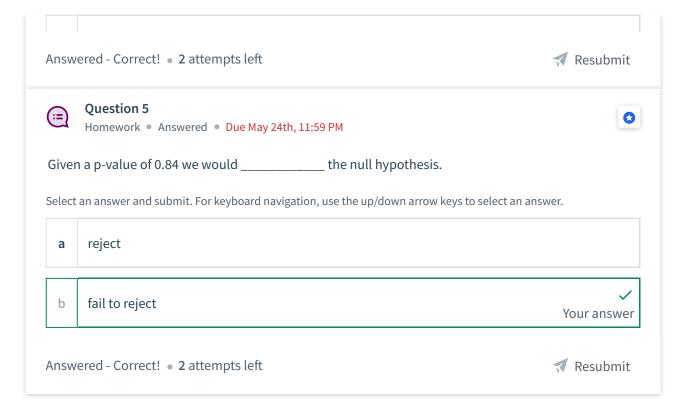
Homework • Answered • Due May 24th, 11:59 PM



## Part 2

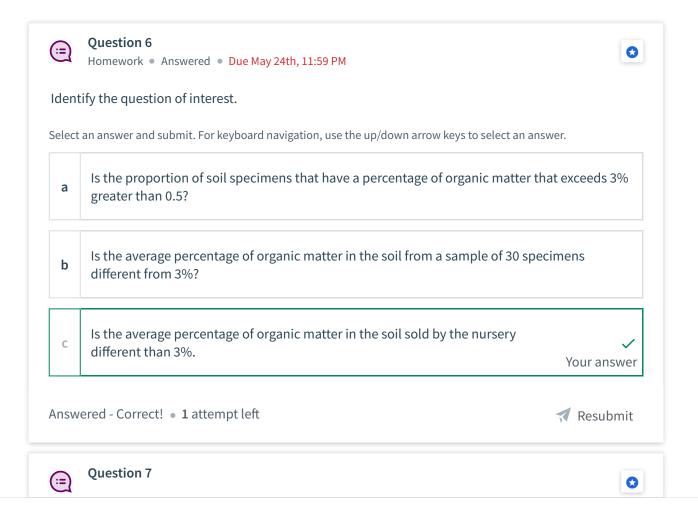
Consider each of the following p-values. Based on significance level of 0.05, choose whether to reject or fail to reject the null hypothesis.

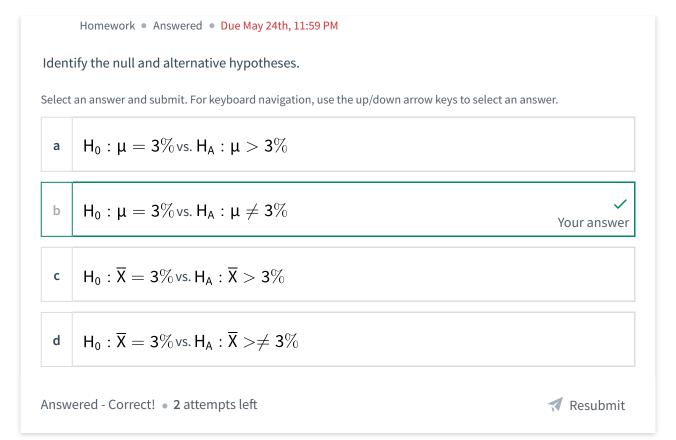




## Part 3

For a particular brand of soil sold at a local nursery, the amount of organic matter in the soil is advertised as 3%. Perform a hypothesis test to test whether the average percentage of organic matter in the soil is something other than 3%. Use a significance level of  $\alpha=0.05$ .

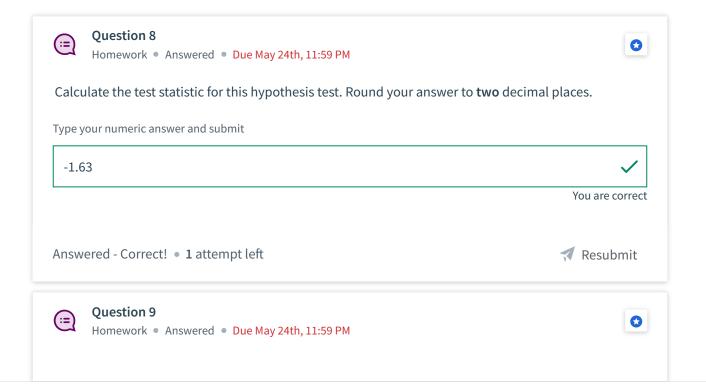


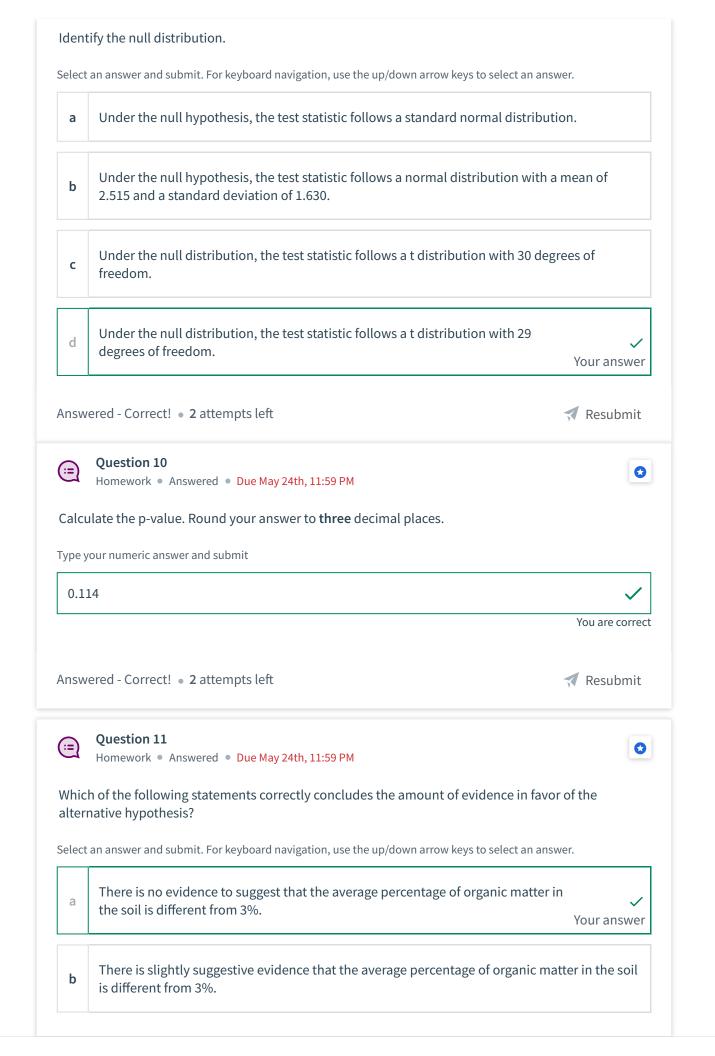


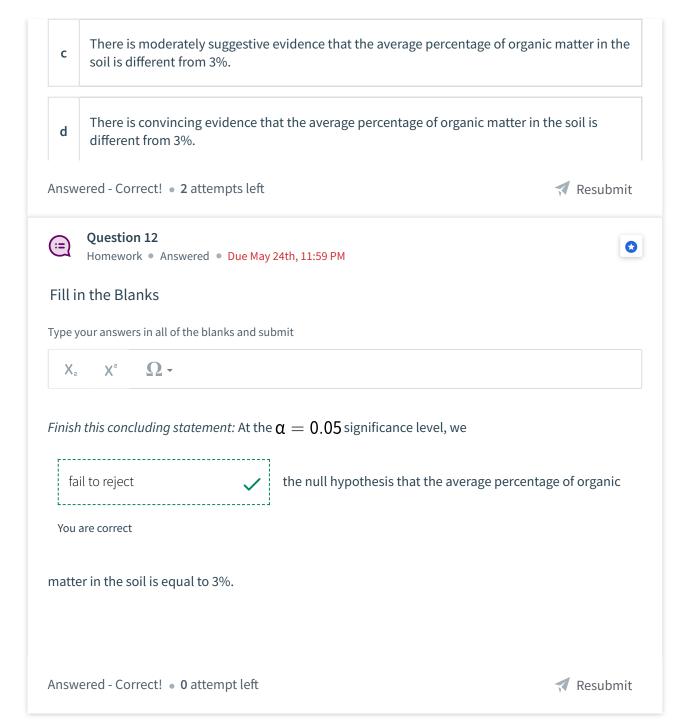
A random sample of 30 soil specimens was obtained from the nursery. The percentage of organic matter in the soil was determined for each specimen, resulting in the accompanying data:

1.10, 5.09, 0.97, 1.59, 4.60, 0.32, 0.55, 1.45, 0.14, 4.47, 1.20, 3.50, 5.02, 4.67, 5.22, 3.69, 3.98, 3.17, 3.03, 2.21, 0.69, 4.47, 3.31, 1.17, 0.76, 1.17, 1.57, 2.62, 1.66, 2.05

The sample mean of these data is 2.515 and the sample standard deviation is 1.630.







## Part 4

A random sample of 150 recent donations at a certain blood bank reveals that 82 were type A blood. Use these data to test whether the actual proportion of blood donations at this bank is greater than 0.4.



