

**Answer on Question #38777, Math, Statistics and Probability**

Inspector Confidence wanted to estimate the mean weight of the eggs. He computed the 95% confidence interval estimate for  $\mu$  to be (47.52, 49.78). On the basis of this interval, what can he say about whether the mean weight of the eggs differs from 50 grams?

**Answer**

In our example, the confidence interval (47.52, 49.78) does not contain 50, indicating that mean weight of the eggs does not equal 50 grams at the 0.05 level of significance.