**Please answer the following question using the P value approach. Please describe your answer in detail. The answer details are important to my understanding the P value concept.**

**Q1) The mean number of calories  per 6-ounce can of tomato paste is supposed to be 150. A weight watchers group thought that  was larger than 150. A random sample of 14 cans yielded a sample mean of 151.2 calories and a sample standard deviation of 2.4 calories. Do the sample results support the weight watchers’ contention at the 5% significance level? Assume the distribution is approximately normal. Use the p-value approach.**