Chi-Square Test

0 points possible (ungraded)

You sell 5 types of TVs at your electronics store. Your store is a small part of a larger chain. Over the past few months, corporate has developed a distribution of customer preferences for these TV types. You decided to interview 185 local customers because you don't think that corporate expectations will hold at your particular store. Conduct a Chi-Square test to see if your customers are in a different distribution than the one corporate expects them to be in. Your survey results and expected values are below.

	Testvalue	Expected Value
Product1	18	28
Product2	39	47
Product3	56	48
Product4	38	35
Product5	34	27

What is the p-value of your ChiSq Test?

Round to the three decimal places.

0.080 .08

0.080

Explanation

In your favorite spreadsheet program, simply use the Chi-Square function.
In excel: =CHISQ.TEST
In Google Sheets: =CHITEST
In Libre Office: =CHISQ.TEST

Using $\alpha = .05$ can you say that your customers are significantly different from corporate's expected distribution?

- (●) No
- ( ) Yes

Explanation

Since your p value is greater than your alpha value of .05, you can not say that the distributions are significantly different.

Submit You have used 1 of 3 attempts

Answers are displayed within the problem