

12.2 Chi-Square Test of Homogeneity

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Statistics AP-Thompson-Year-12462 (8647%)

12.2 Chi-square test of homogeneity

1 of 10 Questions

Assignment Score: 91%

Resources

Give Up!

Solution

Next Question

1 Question of 10 Attempts 85% Correct

2 Question of 10 Attempts 95% Correct

3 Question of 10 Attempts 100% Correct

4 Question of 10 Attempts 85% Correct

5 Question of 10 Attempts 85% Correct

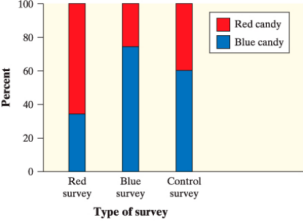
6 Question of 10 Attempts 100% Correct

7 Question of 10 Attempts 90% Correct

8 Question of 10 Attempts 90% Correct

Question 1 of 10

were the same, but the fourth and fifth questions were different. For example, the fourth question on the "red" survey was "When you think of the color red, what do you think about?" On the blue survey, the question replaced red with blue. On the control survey, the last two questions were not about color. As a reward, each volunteer was allowed to choose a chocolate candy in a red wrapper or a chocolate candy in a blue wrapper. Here are segmented bar graphs showing the results of the experiment.



Type of survey	Red candy (%)	Blue candy (%)
Red survey	60	40
Blue survey	20	80
Control survey	40	60

Which of the following observations from the segmented bar graphs is false?

- ☒ 60% of those in the control survey chose the red candy.
- ☐ Those in the control survey were more likely to choose the blue candy, compared with those in the red survey.
- ☐ Over 60% of those who took the red survey chose the red candy.
- ☐ A higher percentage of those in the red survey group chose the red candy, compared with those who took the blue survey.
- ☐ Over half of those in the blue survey chose the blue candy.