

# Topic 15 Relative Frequency - Study Guide

8.SP.A.4

Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.

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## **.For this test, you should be able to:**

- Determine which type of variable gives measurement data (15-1)
  - Example: number of pets, distance, weight, etc
- Determine which type of variable give categorical data (15-1)
  - Example: Zip codes, favorite sport, color
- Decide if a survey is collecting **bivariate categorical data** (15-1)
- When given the questions to a survey to collect bivariate categorical data, be able to:
  - Identify categories for each variable
  - Identify the groups for the data (i.e. all the possible answer combinations for the questions) (15-1)
- Given the data from a bivariate survey, construct a complete two way frequency table (15-2)
- Given an incomplete two way frequency table (some data values missing), calculate and place the missing data values. (15-2)
- Combine data from 2 frequency tables into a single data two-way frequency table. (15-2)
- Use a completed two-way frequency table to answer questions and analyze data. (15-3)
- Use a completed two-way frequency table to decide if statements are true or false based on the data. (15-3)
- Be able to create a total, row, or column relative frequency tables. (15-4)
  - Know how to decide which one to do. "With respect to...."
- Use a completed two-way relative frequency table to answer questions and analyze data. (15-5)
- Use a completed two-way relative frequency table to decide if statements are true or false based on the data. Analyze both a two-way frequency table and total relative frequency table to fill in missing table values. (15-7/Review)
  - Look for values that you can solve first with subtracting
  - Think about how you can find percents of a number
  - This will take some critical thinking and problem solving - persevere!