



Topic C:

Categorical Data on Two Variables

S-ID.B.5, S-ID.C.9

Focus Standard:	S-ID.B.5	Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data.★
	S-ID.C.9	Distinguish between correlation and causation.★
Instructional Days:	3	
	Lesson 9:	Summarizing Bivariate Categorical Data (E) ¹
	Lesson 10:	Summarizing Bivariate Categorical Data with Relative Frequencies (E)
	Lesson 11:	Conditional Relative Frequencies and Association (E)

In Topic C, students reconnect with previous work in Grade 8 involving categorical data. Students use a two-way frequency table to organize data on two categorical variables. Students calculate the conditional relative frequencies from the frequency table. They explore a possible association between two categorical variables using differences in conditional, relative frequencies. Students also come to understand the distinction between association between two categorical variables and a causal relationship between two variables. This provides a foundation for work on sampling and inference in later grades.

¹ Lesson Structure Key: **P**-Problem Set Lesson, **M**-Modeling Cycle Lesson, **E**-Exploration Lesson, **S**-Socratic Lesson