

Exploring bivariate data
 Block 8 Student Activity Sheet

1. Using the table below, how many people were surveyed about their level of education and their employment status?

	Employed	Unemployed	Total
College degree	64	6	
No college degree	124	36	
Total			

2. What percent of the adults in the survey have a college degree?
3. What percent of the adults in the survey are employed?
4. What percent of the adults in the survey are employed and have a college degree?
5. Of those who are employed, what percent do not have a college degree?
6. Of those who do not have a college degree, what percent are unemployed?

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7. **REINFORCE** Is there an association between having a college degree and employment? Support your claim with at least two different frequencies.
8. In Ms. Lee’s class 12 students chose to read books with the 2nd graders and 10 chose to build and fly kites with the 2nd graders. Mr. Guerra’s class has 26 students and 14 of those students chose to read books with the 2nd graders. Build a two-way table to represent these data.
9. Find the frequencies relative to the total number of students in the survey. Fill in each cell in the two-way table with a frequency in the form of a ratio and a percent.

	Ms. Lee’s Class	Mr. Guerra’s Class	Total
Read books			
Build and fly kites			
Total			

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10. Is there an association between the class students are in and the volunteer activity that they chose?

11. **REINFORCE** What percent of the adults in the survey are employed and do not have a college degree?

12. **REINFORCE** What percent of the adults in the survey are unemployed and have a college degree?

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13. **REINFORCE** A local school district polled a sample of middle and high school students about their cell phone ownership. The results are shown in the two-way table. In each cell of the table, write the frequency of each count (as a fraction and percent) relative to the total number of students.

	Own cell phone	Do not own cell phone	Total
Middle School	87	63	150
High School	208	42	250
Total	295	105	400

14. **REINFORCE** Is there an association between students' grade level and cell phone ownership? Explain how you know.

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15. **REINFORCE** Ask at least 20 people if they own a cat or a dog as a pet. Record your data in the two-way table. Then, write the frequency of each count (as a fraction and percent) relative to the total number of students.

	Cat	No cat	Total
Dog			
No dog			
Total			

Based on the data you collected, is there an association between owning a cat and owning a dog?