

A) Recent research seems to indicate that people who live east of Main Street eat ice cream more often than people who live west of Main Street. Here is some data from a sample of 884 people who were asked which side of Main Street they live on and whether or not they ate ice cream last week.

		Which side of Main Street do they live on?		
		East	West	total
Did thy eat ice cream last week?	yes	194 44.292% 45.972%	244 55.708% 52.814%	438 49.548%
	no	228 51.121% 54.028%	218 48.879% 47.186%	446 50.452%
total		422 47.742 %	462 52.258 %	884

1. How did this study operationalize how often people ate ice cream?
2. Can you see any problems with this operationalization?
3. The independent variable is:
  - a. Whether or not they live east of Main Street
  - b. Whether or not they ate ice cream last week
4. Using the "percentage down compare across" strategy, explain what the table shows about where they live and how often they eat ice cream. Make reference to the appropriate percentages in your answer. (eg. "39.541% of those who live in Burnaby are Fred")
5. Using the "percentage across compare down" strategy, explain what the table shows about where they live and how often they eat ice cream. Make reference to the appropriate percentages in your answer. (eg. "39.541% of those who are tall live in Burnaby")
6. Which method is more appropriate for reading this table?
  - a. Percentage down compare across
  - b. Percentage across compare down
  - c. It doesn't matter for this table
  - d. I need more information about the study before I can answer that question

B) Recent research seems to indicate that people who drive an SUV tend to live on the west side of town while those who drive pickup trucks prefer to live on the east side. Here is some data from a sample of 926 people who were asked which vehicle they drive and which side of town they live on.

		Which vehicle do you drive?		
		SUV	pickup truck	total
Where do you live?	East side	213	246	459
		46.405%	53.595%	49.568%
		46.204%	52.903%	
	West side	248	219	467
		53.105%	46.895%	50.432%
		53.796%	47.097%	
total	461	465	926	
	47.742 %	52.258 %		

7. The independent variable is:
  - a. Whether they live on the east side or the west side
  - b. Whether they drive a truck or an SUV
  
8. Using the "percentage down compare across" strategy, explain what the table shows about where they live and what they drive. Make reference to the appropriate percentages in your answer. (eg. "39.541% of those who live in Burnaby are Fred")
  
9. Using the "percentage across compare down" strategy, explain what the table shows between what they drive and where they live. Make reference to the appropriate percentages in your answer. (eg. "39.541% of those who are tall live in Burnaby")
  
10. Which method is more appropriate for reading this table?
  - a. Percentage down compare across
  - b. Percentage across compare down
  - c. It doesn't matter for this table
  - d. I need more information about the study before I can answer that question

C) Recent research seems to indicate that people who drink lots of beer eat less ice cream than those who drink just a little bit of beer. Here is data from a study of a sample of 885 people who were asked how often they drink beer and how often they eat ice cream.

		How often do you eat ice cream?		total
		seldom	often	
How often do you drink beer?	seldom	211	239	450
		46.889%	53.111%	50.847%
	often	227	208	435
		51.826%	46.532%	49.153%
	total	438	447	885
		47.742 %	52.258 %	

11. How did this study operationalize how much ice cream people ate?
12. How did this study operationalize how much beer people drink?
13. Can you think of any problems with how these variables were operationalized?
14. The independent variable is:
  - a. Whether they live on the east side or the west side
  - b. Whether they drive a truck or an SUV
15. Using the "percentage down compare across" strategy, explain what the table shows about the relation between how much ice cream they eat and how much beer they drink. Make reference to the appropriate percentages in your answer. (eg. "39.541% of those who live in Burnaby are Fred")
16. Using the "percentage across compare down" strategy, explain what the table shows about the relation between how much ice cream they eat and how much beer they drink. Make reference to the appropriate percentages in your answer. (eg. "39.541% of those who are tall live in Burnaby")
17. Which method is more appropriate for reading this table?
  - a. Percentage down compare across
  - b. Percentage across compare down
  - c. It doesn't matter for this table
  - d. I need more information about the study before I can answer that question