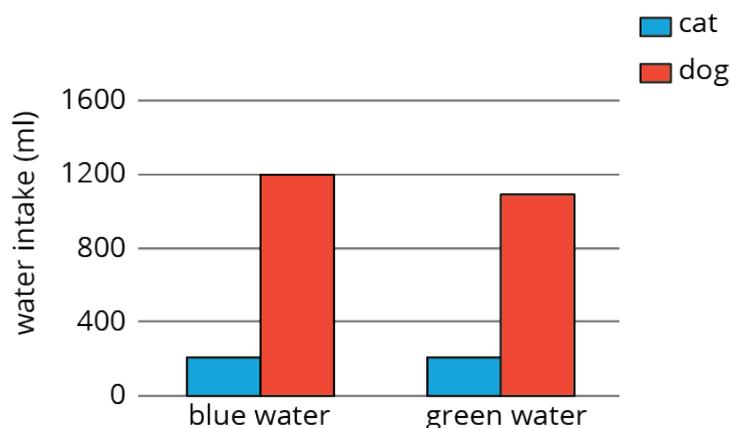# Lesson 9 Practice Problems

1. A scientist wants to know if the color of the water affects how much animals drink. The average amount of water each animal drinks was recorded in milliliters for a week and then graphed. Is there evidence to suggest an association between water color and animal?

	cat intake (ml)	dog intake (ml)	total (ml)
blue water	210	1200	1410
green water	200	1100	1300
total	410	2300	2710

2. A farmer brings his produce to the farmer's market and records whether people buy lettuce, apples, both, or something else.

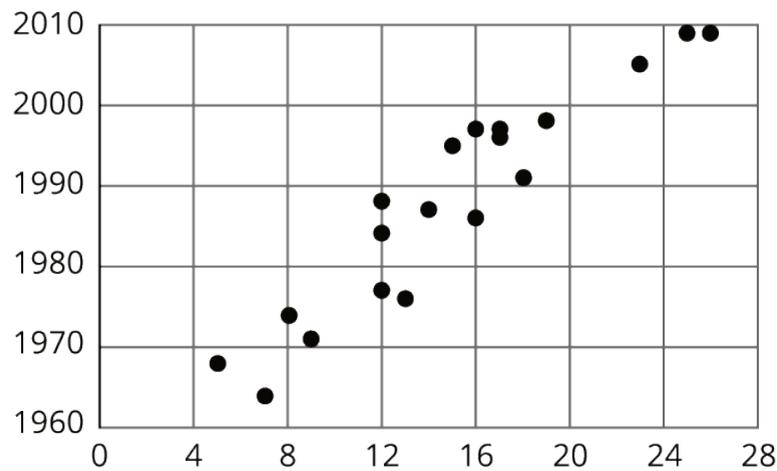|	bought apples	did not buy apples
bought lettuce	14	58
did not buy lettuce	8	29

Make a table that shows the relative frequencies for each row. Use this table to decide if there is an association between buying lettuce and buying apples.

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3. Researchers at a media company want to study news-reading habits among different age groups. They tracked print and online subscription data and made a 2-way table.

	internet media	print media
18-25 year olds	151	28
26-45 year olds	132	72
46-65 year olds	48	165

a. Create a segmented bar graph using one bar for each row of the table.

b. Is there an association between age groups and the method they use to read articles? Explain your reasoning.

4. Using the data in the scatter plot, what is a reasonable slope of a model that fits this data?

A. -2.5

B. -1

C. 1

D. 2.5

(From Unit 6, Lesson 6.)

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