

9.3

Practice A

1. The two-way table shows the results of a football team's home games over the last five seasons and whether the stadium roof was open or closed.

		Stadium Roof	
		Open	Closed
Result	Win	25	7
	Loss	8	0

- How many home games did the team win?
- How many home games did the team lose with a closed roof?
- Find and interpret the marginal frequencies.
- What percent of the total home games did the team win with an open roof?

2. You randomly survey students in a school about whether they prefer cats or dogs as pets. The results are shown in the tally sheets. Make a two-way table including the totals of the rows and columns.

Male Students	
Pet	Tally
Dogs	
Cats	

Female Students	
Pet	Tally
Dogs	
Cats	

3. You randomly survey people in the mall about whether or not they regularly use text messaging. The results are shown in the tally sheets.

Texts Regularly	
Age	Tally
20-29	
30-39	
40-49	

Does Not Text Regularly	
Age	Tally
20-29	
30-39	
40-49	

- Make a two-way table that includes the marginal frequencies.
- For each age group, what percent of the people in the survey text regularly? do not text regularly? Organize the results in a two-way table. Explain what one of the entries represents.
- Does the table in part (b) show a relationship between age and texting? Explain.

9.3

Practice B

1. Find and interpret the marginal frequencies.

		Number of doors	
		Two	Four
Number of Cylinders	Four	54	25
	Six	37	84

2. You randomly survey students in your school. You ask whether they spend more leisure time watching television, playing video games, or going online. You display your results in the two-way table.

- How many 11th-graders chose playing video games?
- Find and interpret the marginal frequencies for the survey.
- What percent of students in the survey are the 12th-graders who spend more time going online?

		Leisure Time		
		Television	Video games	Internet
Grade	10th	25	38	12
	11th	32	26	16
	12th	30	20	30

3. You randomly survey your classmates about the color of their hair. The results are shown in the tables.

- Make a two-way table.
- Find and interpret the marginal frequencies for the survey.
- For each hair color, what percent of the students in the survey are female? male? Organize the results in a two-way table.

Hair Color of Female Classmates			
Red	Blonde	Brunette	Black
3	15	41	33

Hair Color of Male Classmates			
Red	Blonde	Brunette	Black
4	21	30	27