

Name: _____

Period: _____

9.3 - Two Way Tables

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

- a) How many home games did the team win?

- b) How many home games did the team lose with a closed roof?

- c) Find and interpret the marginal frequencies (totals).

- d) 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. Complete the two-way table including the totals of the rows and columns.

Male Students	
Pet	Tally
Dogs	
Cats	

Female Students	
Pet	Tally
Dogs	
Cats	

		Pet Preference		
		Dogs	Cats	Total
Gender	Male			
	Female			
Total				

3) 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.

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

a) How many 11th-graders chose playing video games?

b) Find and interpret the marginal frequencies.

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

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
