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

32 games

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

0 games

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

32 home games were won

8 home games were lost

33 home games were played with an open roof

<u>7 home games were played with a closed roof</u>.

d) What percent of the total home games did the team win with an open roof?

25 wins with an open roof 40 total games at home =.625 = 62.5%

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.

0	Male Students		
	Pet	Tally	
	Dogs		
	Cats		

0	Female Students		
	Pet	Tally	
	Dogs		
	Cats		
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plete the		Pet Pret		
		Dogs	Cats	Total
Gender	Male	17	8	25
Gen	Female	14	20	34
	Total	31	28	59

		Stadium Roof		
		Open Closed		
sult	Win	25	7	
Result	Loss	8	0	

Name: _

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

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

b) Find and interpret the marginal frequencies.

87 students chose watching television
84 students chose playing video games
58 students chose going online
75 students are in 10th grade
74 students are in 11th grade
80 students are in 12th grade

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		

		Hair Color			
		Red	Blon.	Brun.	Blk
Gender	Male	3	15	41	33
Gen	Female	4	21	30	27