10.3 Modeling Linear Association Day 3

TSW

- Read data from a two-way table
- Construct and interpret a two-way table
- Convert data to relative frequencies in a two-way table

8SP 4- Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table.

Vocabulary

Relative Frequencies-

There are two ways of converting these data into relative frequencies.

Late

		Yes	No	Total
Gender	Male	140	575	715
	Female	183	1,086	1,269
	Total	323	1,661	1,984

Late

		Yes	No	lotai	
Gender	Male	140	575	715	
	Female	183	1,086	1,269	
	Total	323	1,661	1,984	

10.3 Modeling Linear Association Day 3

Example 9 Convert data to relative frequencies in a two-way table.

From Example 7, the two-way table below shows the results of a poll of 100 adults about their favorite sport.

Favorite Sport

		Basketball	Baseball	Tennis	Swimming	Total
Gender	Men	16	27	5	12	60
	Women	2	6	16	16	40
	Total	18	33	21	28	100

a) Find the relative frequencies to compare and describe the distribution of the genders within each sport. Round your answer to the nearest hundredth when you can.

b) Find the relative frequencies to compare and describe the distribution of favorite sports within each gender. Round your answer to the nearest hundredth when you can.