Section 6.3 : Two-Way Tables In Class Notes

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A ______ - _____ displays two categories of data collected from the same source.

Each entry in a two-way table is called _______



Reading a Two-Way Table

Ex:) How many students in the survey above studied for the test and passed? Notes:

OYO:) How many students in the survey above studied for the test and failed?

Finding Marginal Frequencies

Ex:) Find and interpret the marginal frequencies for the survey.

		Student	
		Studied	Did Not Study
de	Passed	21	2
Gra	Failed	1	6

Notes:

OYO:) You randomly survey students in a cafeteria about their plans for a football game and a school dance. The two-way table shows the results. Find and interpret the marginal frequencies for the survey.

		Foot	ball Game
		Attend	Not Attend
JCe	Attend	35	5
Dar	Not Attend	16	20

Making a Two-Way Table

Ex:) You randomly survey students between the ages of 12 and 17 about whether they ride the bus to school. The results are shown in the tally sheets. Make a two-way table that includes the marginal frequencies.

Notes:

-	Age	1 Tally
	12-13	******
_	14-15	HH HH 11
	16-17	144L 144L 1111
and a	1	

Age	Tally
12-13	*****
14-15	HH HH 111
16-17	***
	Age 12-13 14-15 16-17

Notes:

OYO:) You randomly survey students about whether they buy a school lunch or pack a lunch. The results are shown. Make a two-way table that includes the marginal frequencies.

-	Grade 6 Students	Grade 7 Students	Grade 8 Students
0	11 pack lunch,	23 pack lunch,	16 pack lunch,
	9 buy school lunch	27 buy school lunch	14 buy school lunch

Modeling Real Life

Ex:) For each age group in Example 3, what percent of the students ride the bus? Do not ride the bus? Determine whether there is a relationship between age and riding the bus to school.

			Age		
_		12-13	14-15	16-17	
lent	Rides Bus				
Stud	Does Not Ride Bus				

Notes:

OYO:) The results of a voting survey are shown in the two-way table. For each age group, what percent of voters prefer Candidate A? Candidate B? Determine whether there is a relationship between age and candidate preference.

		Voter's Age		
		18-34	35-64	65+
idate	A	36	25	6
Cand	в	12	32	24