

Algebra 2

8-02 Two-Way Tables and Probability

Two-Way Table

- Displays data from _____ source that belongs to _____ different categories
- Entries are _____ frequencies
- Totals are _____ frequencies

		Attendance	
		Attending	Not Attending
Class	Freshman	25	44
	Sophomore	80	32

joint frequency

There are 16 juniors and 24 seniors on a debate team. Of those, 7 juniors and 19 seniors qualify for a state debate competition. Organize this information in a two-way table. Then find and interpret the marginal frequencies.

		State Competition		
		Qualified	Not Qualified	Total
Class	Jr.			
	Sr.			
	Total			

Relative Frequencies

- Joint Relative Frequency
 - Ratio of _____ frequency to _____ values
- Marginal Relative Frequency
 - Sum of _____ relative frequencies in a _____ or _____

Make a table showing the relative frequencies.

		State Competition		
		Qualified	Not Qualified	Total
Class	Jr.	7	9	16
	Sr.	19	5	24
	Total	26	14	40

		State Competition		
		Qualified	Not Qualified	Total
Class	Jr.			
	Sr.			
	Total			

Conditional Relative Frequencies

- Ratio of a _____ frequency to the _____ frequency
- Can be done for _____ totals or _____ totals

Make a two-way table that shows the conditional relative frequencies based on (a) the row totals

		State Competition		
		Qualified	Not Qualified	Total
Class	Jr.	7	9	16
	Sr.	19	5	24
	Total	26	14	40

		State Competition	
		Qualified	Not Qualified
Class	Jr.		
	Sr.		

415 #1, 2, 3, 5, 7, 9, 11, 13, 14, 15, 19, 21, 25, 27, 29 = 15