

Activity 2—Answer Key

1. A group of 21 year olds were asked if they had received a traffic ticket in the past 5 years. Below are the data collected.

Calculate the totals for the data.

	Received a traffic ticket	Haven't received a traffic ticket	Total
Girls	32	74	106
Guys	60	38	98
Total	92	112	204

2. Calculate the marginal distributions for the data.

	Received a traffic ticket	Haven't received a traffic ticket	Total
Girls	$32 / 204 = 15.69\%$	$74 / 204 = 36.27\%$	$106 / 204 = 51.96\%$
Guys	$60 / 204 = 29.41\%$	$38 / 204 = 18.63\%$	$98 / 204 = 48.04\%$
Total	$92 / 204 = 45.10\%$	$112 / 204 = 54.90\%$	$204 / 204 = 100\%$

3. Calculate the conditional distributions of Guys in the data.

	Received a traffic ticket	Haven't received a traffic ticket	Total
Girls			
Guys	$60 / 98 = 61.22\%$	$38 / 98 = 38.78\%$	$98 / 98 = 100\%$
Total			