

Homework – Contingency Tables and Association - Key

1. Find the frequency marginal distribution:

		Pets		
Education	Cats	Dogs	Snakes	Totals
High School	5	10	2	17
College	12	11	7	30
Graduate	4	2	10	16
Totals	21	23	19	63

2. Find the relative frequency marginal distribution:

		Pets			
Education	Cats	Dogs	Snakes	Totals	Rel Freq
High School	5	10	2	17	0.2698
College	12	11	7	30	0.4762
Graduate	4	2	10	16	0.2540
Totals	21	23	19	63	
Rel. Freq	0.3333	0.3651	0.3016		

3. Find the conditional distribution based upon pets:

		Pets		
Education	Cats	Dogs	Snakes	
High School	0.2381	0.4348	0.1053	
College	0.5714	0.4783	0.3684	
Graduate	0.1905	0.0870	0.5263	

4. Find the conditional distribution based upon education:

		Pets		
Education	Cats	Dogs	Snakes	
High School	0.2941	0.5882	0.1176	
College	0.4	0.3667	0.2333	
Graduate	0.25	0.125	0.625	