Sampling Distribution Questions

Question 1

Mary is opening a cake shop. As part of her market research, she carries out a survey into which type of cake people like best. She offers people 4 types of cake to taste: chocolate, carrot, lemon and ginger. She selects a random sample of 150 people and she classifies the people as children and adults. The results are as follows.

		Classification of person		Row totals
		Child	Adult	
Type of cake	Chocolate	34	23	57
	Carrot	16	18	34
	Lemon	4	18	22
	Ginger	13	24	37
Column totals		67	83	150

The contributions to the test statistic for the usual χ^2 test are shown in the table below.

		Classification of person	
		Child	Adult
Type of cake	Chocolate	2.8646	2.3124
	Carrot	0.0436	0.0352
	Lemon	1.6549	2.7369
	Ginger	0.7926	0.6475

The sum of these contributions, correct to 2 decimal places, is 12.86.

(i) Calculate the expected frequency for children preferring chocolate cake. Verify the corresponding contribution, 2.8646, to the test statistic. [5]

(ii) Carry out the test at the 1% level of significance. [9]

June 2012 Q4a

Question 2

In a survey on internet usage, a random sample of 200 people is selected. The people are asked how much they have spent on internet shopping during the last three months. The results, classified by amount spent and sex, are shown in the table.

		Sex		Row totals
		Male	Female	
Amount spent	Nothing	28	14	42
	Less than £50	17	21	38
	£50 up to £200	22	26	48
	£200 up to £1000	23	16	39
	£1000 or more	8	5	13
Column totals		98	102	200

(i) Write down null and alternative hypotheses for a test to examine whether there is any association between amount spent and sex of person. [1]

The contributions to the test statistic for the usual χ^2 test are shown in the table below.

		Sex	
		Male	Female
Amount spent	Nothing	0.1865	0.1791
	Less than £50	0.1409	0.1354
	£50 up to £200	0.0902	0.0866
	£200 up to £1000	0.7919	0.7608
	£1000 or more	0.4171	0.4007

The sum of these contributions, correct to 3 decimal places, is 3.269.

(ii) Calculate the expected frequency for females spending nothing. Verify the corresponding contribution, 0.1791, to the test statistic. [5]

(iii) Carry out the test at the 5% level of significance, stating your conclusions clearly. [5]

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