CHAPTER 5

STATISTICAL ANALYSIS

5.1 Introduction

This chapter presents the findings and discussions using several statistical techniques described in Chapter 3, that is proportion test, chi-square test of independence, Mann Whitney test and logistic regression. The first section analyzes the respondent effects on the influence ratings in order to find out whether the children's purchase influences vary across product type. The second section intends to find out if the demographic characteristics affect the influence ratings by the respondents. In this section, chi-square test of independence was carried out, followed by detailed analysis (mainly frequency) to show the relationship between the demographic factors and children's involvement in decision-making. Third section examines if the demographic characteristics affect the pocket money pattern. The following section studies the relationship between pocket money and children's influence. Section 5.6 examines the divergence patterns of influence between the "M/Hs" and children respondents. Finally, Section 5.7 forms a regression model to describe the effect of demographic factors toward children's influence simultaneously.

Children's influence for six selected family decisions were analyzed. These decisions are toys purchase, snacks purchase, food purchase, clothing purchase, holiday destination and finally restaurant choice. The children's influence ratings were available to us from both the "M/H" and the child. Therefore, as well as comparing the results that were obtained across product type, we could also compare

the answers given by each of them separately and thus demonstrate whether they were in agreement or not.

5.2 Influence Variation by Product Type

In order to find out whether the children's influences vary by products, a significance test of difference of proportion was carried out. The "M/Hs" ratings on their perception of children's influence and children's ratings on their own influence were recoded as 1 indicating the purchase decision made entirely by the child or as a joint-decision with the "M/H" whereas 0 indicating child did not exert any influence. The refusals were treated as missing value.

The hypothesis for proportion test is as follow:

- $H_0: p_1 = p_2$ (no different between proportion of influence and no influence)
- H_1 : $p_1 > p_2$ or $p_1 < p_2$ (proportion of influence is greater than proportion of no influence or vise versa)

Where p_1 is the proportion of children who has influence

p2 is the proportion of children who has no influence

Table 5.1 shows that children had significant influence for the purchase of toys, snacks, food and clothing but no significant influence for holiday destination and restaurant choice decision at 0.05 significant level. Similar pattern was also observed in the preliminary analysis in Chapter 4.

Decision		"M/E	I'' Rati	ings		Child'	s Ratir	ngs
	nl	p1	p2	Sig (1-tails)	n2	p1	p2	Sig(1-tails)
Toys	442	0.87	0.13	0.0000	402	0.89	0.11	0.0000
Snacks	445	0.90	0.10	0.0000	432	0.90	0.10	0.0000
Food	444	0.83	0.17	0.0000	430	0.85	0.15	0.0000
Clothing	442	0.56	0.44	0.0083	431	0.60	0.40	0.0000
Holiday Destination	441	0.47	0.53	0.0989	407	0.53	0.47	0.1486
Restaurant Choice	440	0.50	0.50	0.4616	405	0.54	0.46	0.0743

Table 5.1: Proportion Test

n1 and n2 : Number of respondents (n1: "M/Hs", n2: Children)

p1 : Proportion of influence p2: Proportion of no influence

5.3 Demographic Characteristics Towards Children's Influence

• Next, we look at factors that may be related to the children's decisionmaking. Demographic factors included in this analysis are child's age, "M/H" age, gender, race, education achievement, household income, number of children and child's birth order. A chi-square test of independence was carried out to see if there is any significant relationship between the dependent (children's influence) and independent variables (demographic factors). Table 5.2 shows summary of the chisquare results from the "M/H" perception of children's influence and child's perception of their own influence ratings.

According to the "M/Hs" perception of children's influence, it was found that child's age, child's gender and "M/Hs" education achievement did not affect any of the children's decisions toward purchasing the six items. The "M/Hs" age was only significant for toys and snacks purchasing and also choice of restaurant. "M/Hs" ratings also indicate that the decision on items like toys, food, clothing, holiday destination and restaurant choice were reflected by their ethnicity.

terris Teduce Botines Vs Demographic Fa والمعالية المعالية	Batings	Ve Demo	eranhic I	actors								
(a) MJ/H'S Influence	T D		Suche Durchese	urchaca	Food Purchase	rchase	Clothing Purchase	Purchase	Holiday Destination	stination	Restaurant Choice	t Choice
	I oys Furcnase	urcnase c:_	SUBURS I	Sig	~~ ~~	Sig	م ₂	Sig	x2	Sig	χ²	Sig
	X	310	7	4.0	2 DDE	0 477	3 123	0 793	8.499	0.204	6.617	0.358
Child's Age	7.742	0.238	7.909	0.020	0,000	441.0		1300	10 006	0 366	18 908	0.041
M/H's Age	18.480	0.047	18.349	0.049	12.645	0.244	12.486	4 C7.0	10.070	000.0	0.00	
Cander	4 158	0.125	2.270	0.321	1.317	0.518	1.591	0.451	1.212	0.546	0.012	0.994
Derit	75 704	0.000	6 498	0.165	17.107	0.002	32.148	0.000	24.136	0.000	35.332	0.000
Kace	FC1.07	0.227	6 743	0 749	14.197	0.164	9.314	0.503	8.695	0.561	9.853	0.454
Education	+00.11	700.0	19 248	0.047	25 517	0.004	10.791	0.374	19.975	0.029	30.219	0.001
Household Income	067.01	171.0	10.01	0.007	17 559	0.025	27.273	0.001	18.325	0.019	26.325	0.001
No. of Children	14.079	000.0	10.227	117	8 078	0 232	16.427	0.012	18.499	0.005	23.356	0.001
Birth Urder	13./09	7000	170.01	0.114	2.2.2							
				s								
(b) Child's Influence Ratings Vs Demographic J	ce Rating	s Vs Den	lographic	Factors					II'slidan Dactination	actination	Restaurant Choice	nt Choice
	Toys P	Toys Purchase	Snacks Pu	Purchase	Food P	Food Purchase	Clothing	Clothing Furchase	Houlday D		2	č
	, r,	Sig	42	Sig	۲ ²	Sig	×2	Sig	χ,	Sig	7	SIG
	7074	0310	16 187	0.013	15.024	0.020	16.477	0.011	6.592	0.360	4.810	0.568
Child's Age	+70.1		SVV UC	0.025	20.483	0.025	16.374	0.089	5,368	0.865	5.409	0.862
M/H's Age	1010	022.0	1 573	0.467	1 619	0.445	0.625	0.732	0.797	0.671	0.632	0.729
Gender	2.194	+cc.u		101-0	PCP L	0115	20.271	0.000	10.993	0.027	21.374	0.000
Race	6,062	0.190 Q	670.4		10.773	375	10.785	0.375	12.824	0.234	11.450	0.324
Education	4.068	0.944	17 103	0200	16 552	0.085	30.161	0.001	24.911	0.006	20.672	0.023
Household Income	5.643		000 31		14167	0.078	20.428	0.009	23.408	0.003	16.093	0.041
No. of Children	17.307		867.01		14.107	1.10.0	15 51	0.017	14 459	0.025	15.527	0.017
		000	10 01		XAC CI	6	410.01					

.

* Sig value in bold are Significant at the 0.05 level

15.512

12.548 0.051

0.090

10.951

0.022

14.739

Birth Order

*M/H = Marketing Housewife

Table 5 3. Chi-Square Test of Independence

Household income and size of the family significantly affect the children's decision on restaurant choice, holiday destination, food and snacks purchase. In addition, size of the family was also affecting the children's decision on the clothes purchasing. The results also show that the child's birth order was significant for toys, clothing, holiday destination and restaurant choice (Table 5.2(a)).

We now look at how the children perceived their role in decision-making on the same items and same background factors (Table 5.2(b)). Gender and "M/Hs" education level were not significant for all items similar results to those observed by "M/Hs" ratings. However, Table 5.2(b) shows slightly different relationship between the dependent and independent variables as compared to the "M/H" ratings.

The children perceived number of siblings and birth order in the family influence their decision in toys purchase. Both snacks and food purchase were affected by both the child's age and the "M/H" age. Clothes purchasing, holiday destination and restaurant choice were reflected by ethnicity, household income, number of children and size of the family. In addition, child's age also affecting the children's decision on the clothes purchasing.

Next, we examine the distribution of individual decision (mainly toys, snacks, food, clothes, holiday destination and restaurant choice) by child age, "M/H" age, gender, race, education achievement, household income, number of children and child birth order. However, discussions will mainly concentrate on the demographic factors that were significantly related to the children's influence as shown in Table 5.2. The child's and "M/H" ratings will both be shown for comparison.

5.3.1 **Toys Purchase**

Table 5.4 shows the distribution of toys purchase decision by demographic factors. Based on the 442 "M/Hs" and 402 children, a consistent pattern was noticed for both ratings where the joint-decision between children and "M/Hs" was the dominant category across all demographic factors. This was followed by the child's individual decision, whereas the "M/Hs" played an inferior role in deciding toys purchase for children.

Older "M/Hs" (31.25%) were more likely to let the children made their own decision on toys purchase even though joint-decision was still the dominant category (as also shown in Figure 4.6 where children's influence increased with "M/Hs" age). However, the "M/H decides" category also increased when the "M/H" age increased. This implies that there was an increasing trend where the older "M/Hs" either made the purchase decision themselves or allowed their children to make their own decision since they are old enough (Table 5.3 shows that child's age and "M/H" age were positively correlated (0.266) where for "M/Hs" aged 40 and above, majority of their children were aged between 11 to 14 years old).

"M/H" age		Child A	Age (%)		Total
	7-8 years	9-10 years	11-12 years	13-14 years	% (N)
Below 30 years	45.0	25.0	25.0	5.0	100 (20)
30-34 years	32.3	36.9	21.5	9.2	100 (65)
35-39 years	23.4	34.2	22.5	19.8	100 (111)
40-44 years	18.4	27.2	26.2	28.2	100 (103)
45-49 years	6.0	27.7	26.5	39.8	100 (83)
50 years +	14.1	29.7	28.1	28.1	100 (64)
* Pearson $\chi^2 = 43$	3.482, P-Value -	= 0,000	Spearman's rho	= 0.266, P-Valu	e = 0.000

Table 5.3 : Percent Distribution of "M/H" Age Towards Child's Age*

	Child	"M/H" H Joint		T		Child's Ra		
	Decides		M/H Decides	Total N=442	Child	Joint	M/H	Total
Child's Age	Decides	Decision	Decides	11-442	Declues	Decision]	Decides	N=402
7 - 8 yrs	20.45	68.18	11.36	100	21.25	67.50	11.25	100
9 - 10 yrs	21.90	70.80	7.30	100	26.19	67.46	6.35	100
	21.30	61.11	17.59	100	19.19	64.65	16.16	
11 - 12 yrs	23.85	60.55	15.60	100	26.80			100
13 - 14 yrs	23.05	00.55	15.00	100	20.80	61.86	11.34	100
"M/H" Age								
Below 30 yrs	20.00	75.00	5.00	100	37.50	56.25	6.25	100
30-34 yrs	15.63	73.44	10.94	100	13,56	74.58	11.86	100
35-39 yrs	21.62	68.47	9.91	100	21.90	68.57	9.52	100
40-44 yrs	14.71	71.57	13.73	100	20.83	69.79	9.38	100
45-49 yrs	29.63	50.62	19.75	100	30.56	52.78	16.67	100
50 yrs and above	31.25	57.81	10.94	100	29.63	61.11	9.26	100
Gender (Child)								
Male	23,68	66.67	9.65	100	26.32	64.11	9.57	100
	20.09	64.02	15.89	100	20,73	66.84	12.44	100
Female	20.09	04.02	10.07					
Race		# 0.46	11 40	100	20.93	66,51	12.56	100
Malays	18.03	70.49	11.48	100		63.03	6.72	100
Chinese	34.40	57,60	8.00	100	30.25	66.18	13.24	100
Indians/Others	13.70	61.64	24,66	100	20.59	00.10	15.24	100
Educatión Achievement							14.51	100
No formal schooling	33,33	46.15	20.51	100	26.47	58.82	14.71	100
	24.04	64.90	11.06	100	23.56	65.97	10.47	100
Primary	17.17			100	21.59	69.32	9.09	100
Secondary/LCE/SRP	18.18	67.53		100	25.00	63.89	11.11	100
MCE/SPM	10,10	80.00		100	-	66.67	33.33	100
HSC/STPM	-			100	28.57	57.14	14.29	100
University/College	. 21.43	/1.45	/					
Household Income			17.05	100	21.95	63.41	14.63	100
Up to \$500	19.32	63.64		100 0000000	100		9.20	100
501-\$1000	20.97	65.05				CONTRACTOR 1-1	238 19407-03	10
\$1001-1500	20.51				100 CE 100 CE			
\$1501-\$2000	38.30	1000-000 te re	5 4.26	100				10
\$2001-\$3000	12.00	201 (2) (201) 4.00		The strength of the	10011-1 0011-1		10.00
\$2001-\$3000 Above \$3000	22.22		1 16.67	100	16.67	01.11	ک منو ر مار بند	
	1011/74820000						10.44	5 10
Number of Children	22.00	51.3	2 15.79) 100	35.82			
1	32.89							
2	22.34) 20.4		10220 12 12	5. S. S.
3	15.74	550 				5 66.20		2.2
4	25.64						5 19.2	5 I
More than 5	16.23	8 69.7	/ 15.9.					
Child's Birth Order			/5031 minut	~ 10	0 35.8	2 53.7	3 10.4	
	32.8	9 51.3			· · · · ·			3 1
Only child	18.9		8 8.23	10	- 		4 11.3	6 1
First child		- 12 C	8 14.1		-			2 1
Neither first nor only chil	23.8			2 10				
Youngest					0 23.6	65.4	10.5	<u> </u>
Total	21.9	5 65.3	00 12.0			alten 10		

Table 5.4: Percent Distribution of Toys Purchase Decision Role Across Demographic Factors

*4 M/H respondents did not give their ratings ** 44 child respondents did not give their ratings

Table 5.4 shows that Chinese children made more purchase decision entirely by themselves (34.4%) compared to other ethnic groups. Indian "M/Hs" were more likely to make the purchase decision for their children (24.66%) compared to other ethnic groups. However, the majority (65.38%) of the children across three ethnic groups made joint-decision for toys purchase.

Child's ratings revealed that as the number of children in the family increased, the children were less likely to make the purchase decision individually (Table 5.4). It was found that the only child and the youngest child in the family made more toys purchase decision individually. This is consistent for the ratings from both parties (refer also to Figure 4.6 and Figure 4.8 for "M/H" ratings).

5.3.2 Snacks Purchase

Table 5.5 shows the percent distribution of snacks purchase decision by demographic factors. Based on "M/H" ratings, "joint-decision" (46.29%) was still the dominant category for snacks purchase across all demographic factors, but majority of the children (49.07%) were more likely to perceive it as their own decision, followed by "joint-decision" (40.51%) and "M/H decides" (10.42%). Nevertheless, the percentage for "child decides" and "joint- decision" were rather close for "M/H" ratings (43.37% and 46.29% respectively) as also clearly shown in Figure 4.5.

Although race was not related to children's influence for snacks purchase as shown in Table 5.2 (the chi-square test showed a p-value of 0.165 from "M/H" ratings and 0.363 from child's ratings), we did observe that Indian children was the group with highest percentage (52.05%) that made the purchase decision individually (Table 5.5).

		"M/H"]	Datin					
	Child	Joint	"M/H"	m		Child's R	atings**	
		Decision	Decider	Total	Child	Joint	"M/H"	Total
Child's Age		Decision	Declues	N=445	Decides	Decision	Decides	N=432
7 - 8 yrs	38.20	48.31	12 40	100				
9 - 10 yrs	44.53	46.72	13.48	100	34.88	52.33	12.79	100
11 - 12 yrs	42.73	45.45	8.76	100	48.84	44.96	6.20	100
13 - 14 yrs	46.79	44.95	11.82	100	53.21	36.70	10.09	100
	40.75	44.93	8.26	100	56.48	29.63	13.89	100
"M/H" Age								
Below 30 yrs	60.00	35.00	5.00	100	75.00	25.00	-	100
30-34 yrs	35.94	51.56	12.50	100	33.87	58.06	- 8.06	100
35-39 yrs	42.34	51.35	6.31	100	45.87	41.28	12.84	100
40-44 yrs	34.95	55.34	9.71	100	46.00	44.00	12.84	100
45-49 yrs	46.99	38.55	14.46	100	58.23	29.11	12.66	100
50 yrs and above	56.25	31.25	12.50	100	54.84	35.48	9.68	100
Gender (Child)				100	54,04	55.40	9.00	100
Male	46 75	10.00	0.07		2 - 18 -			
Female	46.75	43.29	9.96	100	48.88	39.01	12.11	100
remate	39.72	49.53	10.75	100	49.28	42.11	8.61	100
Race								
Malays	38.87	48.58	12.55	100	47.46	43.22	9.32	100
Chinese	47.20	45.60	7.20	100	55.28	33.33	11.38	100
Indians/Others	52.05	39.73	8.22	100	43.84	43.84	12.33	100
						N = =		
Education Achievement	60 0 7	22.22	7 (0	100		20.00	16.67	100
No formal schooling	58.97	33.33	7.69	100	44.44	38.89	16.67	100
Primary	42.65	46.92	10.43	100	52.91	38.83	8.25	100
Secondary/LCE/SRP	38.38	50.51	11.11	100	41.67	43.75	14.58	100
MCE/SPM	45.45	42.86	11.69	100	48.00	44.00	8.00	100
HSC/STPM	40.00	60.00		100	25.00	50.00	25.00	100
University/College	35,71	57.14	7.14	100	66.67	26.67	6.67	100
Household Income								
Up to \$500	36.36	50.00	13.64	100	38.10	48.81	13.10	100
501-\$1000	43,39	44.44	12.17	100	55.00	38.33	6.67	100
\$1001-1500	47.44	46.15	6.41	100	51.28	37,18	11.54	100
\$1501-\$2000	61.70	31.91	6.38	100	54.35	28.26	17.39	100
\$2001-\$3000	36.00	64.00	-	100	32.00	60.00	8.00	100
Above \$3000	22.22	61.11	16.67	100	42.11	42.11	15.79	100
ADOVE 33000	<i>LL.LL</i>	01.11						
Number of Children			10.17	100	62.16	25.68	12.16	100
1	53.95	32.89	13.16	100	40.43	51.06	8.51	100
2	37.50	53.13	9.38	100	40.45	45.79	9,35	100
3	37.96	52.78	9.26	100	44.80 56.58	31.58	11.84	100
4	59.49	29.11	11.39	100	45.68	43.21	11.11	100
More than 5	32.56	58.14	9.30	100	43.00	-12.61		
							10.14	100
Child's Birth Order	53.95	32.89	13.16	100	62,16	25.68	12.16	100
Only child	39.24	53.80	6.96	100	45.22	45.86	8.92	100
First child	42.25	45.77	11.97	100	48.53	38.97	12.50	100
Neither first nor only child	42.23	44.93	11.59	100	44.62	47.69	7.69	
Youngest				100	49.07	40.51	10.42	100
Total	43.37	46.29	10.34	100				

Table 5.5: Percent Distribution of Snacks Purchase Decision Role Across Demographic Factors

.

*1 M/H respondents did not give their ratings ** 14 child respondents did not give their ratings

Older children rated that they had more influence but the "M/H" ratings did not show this pattern. Results show that "M/H" age is an important factor in snacks purchase decision. "M/Hs" below 30 years old tend to allow their children to make the decision individually (60% from "M/H" ratings, 75% from child's ratings). However, children's influence decreased for the group where "M/Hs" aged between 30 to 44 and increased again for older "M/Hs".

Based on the "M/H" ratings as shown in Table 5.5, household income had positive effect towards children's influence in snacks purchase. Children's influence increased as the household income increased and "child decides" became the dominant category for families with household income between RM1501 to RM2000 (61.70%). However, when the household income exceeded RM2000, their influence started to decrease and joint-decision became the dominant category again. This implies that "M/Hs" in families with higher income were more involved in deciding what snacks to buy for the children.

Majority of the only child (53.95%) tend to make their own decision in snacks purchase. Their influence seems to decreased when there were more children in the family.

5.3.3 Food Purchase

Percent distribution of food purchase decision by demographic factors is showed in Table 5.6. Food purchase had a similar overall pattern as the purchase of snacks as also shown in Figure 4.5. Majority of the "M/Hs" perceived it as jointdecision (47.07%) across all demographic factors, followed by "child decides" (36.26%) and "M/H decides" (16.67%). However, majority of the children (43,02%) perceived it as their own decision. The percentage for "child decides" and

"joint-decision" were rather close for child's ratings (43.02% and 42.33% respectively).

According to child's ratings, children's influence in food purchase increased with their age. As the age increased, they tend to make their own decision on this purchase. Besides that, children's influence increased with the "M/Hs" age. For "M/Hs" aged 45 and above, "child decides" was the dominant category (Table 5.6). This may imply that older "M/Hs" were more willing to listen to their children in deciding what food to buy.

"M/H" ratings revealed that Chinese (47.2%) and Indian (42.47%) children were more likely to make food purchase individually, whereas Malay children (50.81%) tend to make joint-decision with the "M/Hs". While household income increased, children made more purchase decision by themselves. However, when the household income exceeded RM2000, more "joint-decision" took place.

The only child in the family tends to make the purchase decision on their own. When there were more children in the family, the decision was more likely to be made jointly. This indicates that, for one child families, "M/Hs" seem to give in to the only child for what he/she likes, however, when the number of children in the family increased, "M/Hs" have to consider other children's like and dislike in making decision for food purchase.

		"M/H" R				Child's R		
	Child		"M/H"	Total	Child	Joint	"M/H"	Total
	Decides	Decision	Decides	N=444	Decides	Decision	Decides	N=430
Child's Age		FF 07	14 (1	100	29.41	57.65	12.94	100
7 - 8 yrs	30.34	55.06	14.61	100	42.31	45.38	12.94	100
9 - 10 yrs	38.24	47.06	14.71	100		45.58 35.19	12.31	100
11 - 12 утз	32.73	47.27	20.00	100	49.07			100
13 - 14 yrs	42.20	40.37	17.43	100	48.60	33.64	17.76	100
"M/H" Age					(6 00)	05.00		100
Below 30 yrs	45.00	50.00	5,00	100	65.00	35.00	-	100
30-34 yrs	34.38	45.31	20.31	100	36.51	53.97	9.52	100
35-39 yrs	31.53	53,15	15.32	100	35,51	48.60	15.89	100
40-44 yrs	29.13	53.40	17.48	100	41.00	45.00	14.00	100
45-49 yrs	41.46	40.24	18.29	100	53.85	26.92	19.23	100
50 yrs and above	48.44	35.94	15.63	100	45.16	37.10	17.74	100
Gender (Child)								
Male	38.70	44.78	16.52	100	40.36	43.50	16.14	100
Female	33.64	49.53	16.82	100	45.89	41.06	13.04	100
Race							13	
	28.86	50.81	20.33	100	38.30		14.04	100
Malays	47.20	44.00	8.80	100	50.81	33,06	16.13	100
Chinese	42.47	39.73	17.81	100	45.07	40.85	14.08	100
Indians/Others	74.00							
Education Achievement	46.15	33.33	20.51	100	40.54	35.14	24.32	100
No formal schooling		44.29	15.71	100	47.06		11.76	100
Primary	40.00		15.15	100	35.79			100
Secondary/LCE/SRP	36.36	48.48		100	40.79			100
MCE/SPM	25.97		19.48	100	20.00			
HSC/STPM	40.00	60.00			61.54	501 - Tao A.		
University/College	. 7.14	71.43	21.43	100	01.5			
Household Income			~ ~ ~	100	33.73	3 50.60) 15.66	100
Up to \$500	30.68		21.59					
501-\$1000	34.04		19.15			·		
\$1001-1500	42.31					 Device apply Device apply Device apply Device apply 	121 2	
\$1501-\$2000	59.57	31.91	8.51	100				
\$2001-\$3000	20.00	72.00		S 2		195	2.5 200	
Above \$3000	22.22	50.00	27.78	100	47.3	7 31.5	6 21.0.	, 10
Number of Children						5 27.0	3 18.9	2 10
1	48.68	38.16			· · · · · · · · · · · · · · · · · · ·			101 D
2	33.68	49.47	16.84					50
3	33,33	50.00) 16.62		5 52			
4	46.84			6 100		10-10-10 M		
More than 5	22.09			7 100) 36.1	.4 49.4	0 14.4	0 10
Child's Birth Order	10 / 0	0 2014	5 13.1	6 10	0 54.0)5 27.0		
Only child	48.6			<u>a</u> .	•	100 - 120 - 12		
First child	33.5				-		99 17.5	
Neither first nor only chil	d 32.3		622	-	•)6 1
Youngest	36.7			-			100 Part 1	55 1
Total	36.2	6 47.0	7 16.6	7 10	0 43.	14 44.		

Table 5.6: Percent Distribution of Food Purchase Decision Role Across Demographic Factors

....

*2 M/H respondents did not give their ratings ** 16 child respondents did not give their ratings

5.3.4 Clothing Purchase

Clothes purchasing was a decision that was less likely to be made entirely by the children as compared to toys, snacks and food purchase. As shown in Table 5.7, "M/Hs" rated it as their own decision (44.34%), followed by "joint-decision" (42.99%). Only 12.67% of the "M/Hs" rated it as "child decides". Children rated themselves had more influence, 45.71% as "joint-decision", 40.14% as "M/H decides" and 14.15% as their own decision. This may due to the fact that children aged 7 to 14 are still young and they need the "M/Hs" opinion in choosing clothing. However, for older children, the "M/Hs" either discussed with the children or let the children decide themselves.

"M/Hs" ratings shows that majority of Malay and Chinese children made the purchase together with the "M/H" whereas majority of the Indian children did not get involve in the clothes purchasing. Chinese children however made more purchase decision on their own. This pattern was also observed for child's ratings.

"Joint-decision" was a very dominant decision for families with above RM2000 household income. 76% was "joint-decision" for the families earning RM2001 to RM3000 compared to only 26.09% for families earning RM1501 to RM2000 as rated by children. Children in families earning RM1001 to RM1500 was the group that made more purchase decision individually ((Table 5.7 : 24.68%).

	~~···	"M/H"]	Ratings*		1	Child's R	atings**	
	Child	Joint	"M/H"	Total	Child	Joint	"M/H"	Total
	Decides	Decision	Decides	N=442	Decides	Decision	Decides	N=431
Child's Age				50.50				
7 - 8 yrs	14.61	47.19	38.20	100	8.43	45.78	45.78	100
9 - 10 yrs	11.76	42.65	45.59	100	10.61	45.45	43.94	100
11 - 12 yrs	10.19	40.74	49.07	100	13.89	41.67	44.44	100
13 - 14 утѕ	14.68	42.20	43.12	100	23.15	50.00	26.85	100
"M/H" Age								
Below 30 yrs	10.00	45.00	45.00	100	5.26	47.37	47.37	100
30-34 yrs	6.25	46.88	46.88	100	4.92	45.90	49.18	100
35-39 yrs	10.81	45.05	44.14	100	9.17	51.38	39.45	100
40-44 yrs	8.74	46.60	44.66	100	19.00	48.00	33.00	100
45-49 yrs	20.00	38.75	41.25	100	20.00	40.00	40.00	100
50 yrs and above	20.31	34.38	45,31	100	19.35	38,71	41.94	100
Gender (Child)								
Male	10.96	42.54	46.49	100	12.89		40.89	100
Female	14.49	43.46	42.06	100	15.53	45.15	39.32	100
Race								
Malays	9.43	46.31	44.26	100	9.36	51.06	39,57	100
Chinese	24.00	43.20	32.80	100	25.00		35.48	100
Indians/Others	4.11	31.51		100	11.11	38.89	50.00	100
Education Achievement								100
No formal schooling	17.95	35.90	46.15	100	21.05			100
	12.02			100	15.20			100
Primary	10.10	And the second s			11.58	50.53		100
Secondary/LCE/SRP	14.29				12,16	6 47.30	40.54	100
MCE/SPM	20.00				20.00	80.00		100
HSC/STPM					6.67	66.67	26.67	100
University/College	. 14.29	50.00	, 55.71					
Household Income	7.05	42.0	5 50.00) 100	11.9	0 45.24		
Up to \$500	7.95					0 45.56		1000 1 - 100
501-\$1000	11.29	; 			S 1923	8 44.16		1107 (227)74
\$1001-1500	17.95			1.1			9 52.17	
\$1501-\$2000	17.02						0 16.00	10
\$2001-\$3000	12.00		- 10 CONTRACT 100 C	5.12	10 M		6 26.32	10
Above \$3000	16.6	7 50.0	0 33.3	5 100	, 1010			
Number of Children			9 42.1	1 100) 27.0	3 35.1		
1	25.0		-			39 38.3		
	12.9				1977-		.0 33.0	
2 3	11.1	1 54.6		- 199				
4	13.9	2 37.9	227 14 14	· · · · · · · · · · · · · · · · · · ·	•		50 42.1	7 10
4 More than 5	2.33	3 43.0)2 54.6	5 IU	0 7.2			
Child's Birth Order				11 10	0 27.	03 35.1	4 37.8	100
	25.0	0 32.			¥	· · · ·	70 37.6	
Only child	10.1	3 46.			·	•	91 43.0	
First child			48 45.					2 1
Neither first nor only chil Youngest	15.1	· · · · · · · · · · · · · · · · · · ·					5. SH	4 1
I Oungest	12.0	57 42.	99 44.	34 10	0 14	12 42.		

Table 5.7: Percent Distribution of **Clothing Purchase Decision Role Across Demographic Factors**

....

*4 M/H respondents did not give their ratings ** 15 child respondents did not give their ratings

As mentioned in Section 4.4 (Figure 4.6), the lesser the number of children in the family, the higher the percentage of children that make their own decision in clothes purchasing. "M/Hs" tend to dominate the purchase's role in families with more children. However, for only child families, the children will have more say for the purchase of clothes (as shown in Table 5.7, 25% from "M/H" ratings, 27.03% from child's ratings).

14

5.3.5 Holiday Destination

Table 5.8 shows that majority of the "M/Hs" (53.06%) and children (47.42%) agreed that "M/Hs" had more influence in deciding for holiday destination. Children's influence for this decision was very mild and was tested using proportional test (Section 5.2, Table 5.1) which indicated that children did not have significant influence for this decision. Holiday planning normally will involve the spending of large amount of money. For decisions that incur big expenses, the head of the household will normally make the decision. Therefore, influence of children may not be very significant.

Although children did not have significant influence in holiday decision, it was shown by the chi-square test of independence (Table 5.2) that race, household income, number of children and child's birth order were significant factors in influencing holiday destination decision.

Majority of the Malay (47.25%) and Chinese (46.61%) children indicated that they made joint-decision with the "M/H" in the selection of holiday destination but the "M/Hs" were more likely to take it as their own (52.67% and 44% respectively). As for Indian family, majority of the "M/Hs" (69.86%) as well as the children (63.38%) perceived it as the "M/Hs" decision.

	Child	"M/H" F Joint	Ratings* "M/H"	Total	Child	Child's Ra		
		Decision	Decides	N=441		Joint Decision	"M/H" Dasidas	Total N=407
Child's Age					Decides	Decision	Declues	11=407
7 - 8 yrs	10.11	47.19	42,70	100	6.41	46.15	47.44	100
9 - 10 yrs	6.62	36.76	56.62	100	8.87	41.94	49.19	100
11 - 12 yrs	9.35	32.71	57.94	100	12.12	36.36	51.52	100
13 - 14 yrs	4.59	43.12	52.29	100	6.60	51.89	41.51	100
"M/H" Age								
Below 30 yrs	5.00	35.00	60.00	100	-	44.44	55.56	100
30-34 yrs	7.94	36.51	55.56	100	5.08	42.37	52.54	100
35-39 yrs	6.31	45.95	47.75	100	7.69	47.12	45.19	100
40-44 yrs	3.88	41.75	54.37	100	9.38	45.83	44.79	100
45-49 yrs	8.75	40.00	51.25	100	11.84	40.79	47.37	100
50 yrs and above	14.06	28.13	57.81	100	11.11	40.74	48.15	100
Gender (Child)								
Male	8.81	39.21	51.98	100	9,72	43.98	46.30	100
Female	6.07	39.72	54.21	100	7.33	43,98	48.69	100
Race					a 64	10.05	AE A1	100
Malays	5,76	41,56	52.67	100	7.34	47.25	45.41	100
Chinese	15.20	40.80	44.00	100	11.86	46.61	41.53	
Indians/Others	=	30.14	69.86	100	7.04	29.58	63.38	100
Education Achievement	N3 1756 - MM1 2412		61 00	100	16.67	30,56	52.78	100
No formal schooling	10.26			100	7.85	42.41	49.74	100
Primary	8.21	34.78		100		48.35	47.25	100
Secondary/LCE/SRP	4.04	42.42		100	4.40		44.29	100
MCE/SPM	7.79	46.75		100	10.00			100
HSC/STPM	20.00			100	25.00	14-5-10 DOI:0000	33.33	100
University/College	. 7.14	42.86	50.00	100	13.33	20.00	55.50	
Household Income	122	40.10	611 <i>1</i>	100	10.00	46.25	43.75	100
Up to \$500	5.68			1			55.56	100
501-\$1000	8.65	31.89	521 F2			1000	21 827 1233 233	100
\$1001-1500	6.41	42.31	1000 and 1 and 1			15 Sec. 19212		100
\$1501-\$2000	8,51	38.30	100 100 AUX-0			N 104 Hz		100
\$2001-\$3000	4.00							
Above \$3000	11.1	38.89	9 50.00	100	, 15.7.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Number of Children			1 50.00) 100) 18.5	7 38.57		2 ST -
1	15.7		-					
2	10.7							12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
3	4.63		(C) (C) (C) (C)	E	-			100 C 100
4	6.41	37.1	and the second sec	The second se		· · · · · · · · · · · · · · · · · · ·	3 54.67	100
4 More than 5	1.10	5 38.3	7 60.4	/ 10		π		1000 - Gran ma
Child's Birth Order			1 50.0	0 10	0 18.5	38.5		
Only child	15.7	1		·		8 45.5		
First child	6.9				·	7 45.2		
Neither first nor only chil	d 1.4	2 39.0		(R).	/		5 45.3	
Youngest	12.1						8 47.4	2 10
Total	7.4	8 39.4	46 53.0	0 10	0 010		and a second	

Table 5.8: Percent Distribution of Holiday Destination Decision Role Across Demographic Factors

*5 M/H respondents did not give their ratings ** 39 child respondents did not give their ratings

Turning to "M/H" ratings category labeled as "M/H decides"(Table 5.8), it was found that this category was dominated across all income groups except for income between RM2001 to RM3000, where at this point "joint-decision" became more significant. However for families earning less than RM2000, majority of children perceived it as "M/H" decision alone. When the household income exceeded RM2000, more children took part in the decision-making.

As expected, the only child had more say in deciding for holiday destination (15.79% from "M/H" ratings, 18.57% from child's ratings) followed by the youngest child (12.12% from "M/H" ratings, 10.94% from child's ratings). Their influence decreased as the number of children in the family increased (also shown in Figure 4.6 and Figure 4.8).

5.3.6 Restaurant Choice

Restaurant choice is another family decision that children did not seem to have significant influence (Table 5.1). The "M/Hs" (Table 5.9: 50.23% from "M/H" ratings and 46.42% from child's ratings) made this decision.

This was the only decision where the children perceived themselves to have slightly less influence than the "M/Hs" perceptions. Only 11.11% of the children perceived themselves as the decision-maker compared to 12.05% of the "M/Hs".

Result shows that younger "M/Hs" were more dominant in restaurant choice. Older "M/Hs" were more willing to go along with their children's decision in restaurant selection.

	Сын	"M/H"]	Katings*	-		Child's R		
	Child Decides	Joint	"M/H"	Total	Child	Joint	"M/H"	Total
Child's Age	Declues	Decision	Decides	N=440	Decides	Decision	Decides	N=405
7 - 8 vrs	8.99	46.07	44.94	100	C 40	16 75		100
9 - 10 yrs	10.95	39.42	49.64	100	6.49 10.48	46.75	46.75	100
11 - 12 yrs	11.43	33.33	55.24	100	10.48	45.16	44.35	100
13 - 14 yrs	16.51	33.03	50.46	100	12.12	36.36	51.52	100
•	10.51	55.05	50.40	100	14.29	41.90	43.81	100
"M/H" Age								
Below 30 yrs	5.00	35.00	60.00	100	11.11	33.33	55.56	100
30-34 yrs	3.17	36.51	60.32	100	6.78	42.37	50.85	100
35-39 yrs	18.02	40.54	41.44	100	10.68	47.57	41.75	100
40-44 yrs	6.93	43.56	49.50	100	11.22	40.82	47.96	100
45-49 yrs	17.28	34.57	48.15	100	15.79	42.11	42.11	100
50 yrs and above	14.06	29.69	56.25	100	9.80	39.22	50.98	100
Gender (Child)								
Male	11.89	37.89	50.22	100	12.26	41.51	46.23	100
Female	12.21	37.56	50.23	100	9.84	43.52	46.63	100
	1	27120						
Race	0 < 1	41.00	40.50	100	8.88	47.20	43.93	100
Malays	8.61	41.80		100	8.88 17.50		38.33	100
Chinese	23.20	38.40			7.04	25.35	67.61	100
Indians/Others	4.23	22.54	73.24	100	7.04	22.22	07.01	100
Education Achievement								100
No formal schooling	17.95	25.64	56.41	100	13.51			100
Primary	10.68		52.43	100	11.29		51.08	100
Secondary/LCE/SRP	10.10		52.53	100	8.60			100
MCE/SPM	14.29		42.86	100				100
HSC/STPM	-	60.00	40.00	100				100
University/College	21.43			100	13.33	3 53.33	33.33	100
Household Income		42.10	51.14	100	7.59	49.37	43.04	
Up to \$500	5.68							
501-\$1000	9.73	29.73					0.000	
\$1001-1500	15.38				10 A		5 50.00	
\$1501-\$2000	17.39		100 March 100 Ma			5 N. O) 24.00	
\$2001-\$3000	16.00		1000 March 1000					100
Above \$3000	33.33	38.8	9 27.78	100		- 40 AD- 880-5		
						4 33.8	0 43.66	5 100
Number of Children	25.6	8 28.3		201 - 201 -				
1	11.7		2 44.68					
2	7.41	51	2 49.07		(A24)			202
3	15.3		2 50.00				7	
4	3.49	50		3 10	0 5.4	1 41.0	,	-
More than 5	5.17					0-		6 10
Child's Birth Order		0 000	8 45.9	5 10	0 22.:	54 33.8		
Only child	25.6			-	522 G 0	56 44.2		_
First child	11.3			·		34 43.5		
Neither first nor only chil	d 5.6'					52 46.0)3 44.4	
Youngest	11.9	4 41.				11 42.4	47 46.4	2 10
Total	12.0	5 37.'	73 50.2	3 10	0 11.	11		

Table 5.9: Percent Distribution of Restaurant Choice Decision Role Across Demographic Factors

*6 M/H respondents did not give their ratings ** 41 child respondents did not give their ratings

Once again, Chinese children exerted more influence than the other two groups as what we saw in the purchase of toys, food, clothing and holiday destination. Chinese "M/Hs" rated "joint-decision" and "M/H decides" as equal dominant (both with 38.40%) in this decision whereas Malay (49.59%) and Indian (73.24%) "M/Hs" indicated it was more of the "M/Hs" decision. Majority of the Chinese (44.17%) and Malay (47.20%) children perceived it as joint-decision.

Turning to household income, both "M/Hs" and children thought that children had less influence in this decision (i.e. restaurant choice). This is reflected by the low percentage for both groups. However, as household income increased, the "M/Hs" ratings was higher for the children. In other words, "M/H" perceived that in the higher income groups, children were given an opportunity to make a choice of the place they wanted to go and eat. And also, both parties (i.e. "M/Hs" and children) agreed that "M/Hs" were the decision maker in families with more children. As expected, the only child had the privilege in deciding the restaurant they wanted to go to as compared to those with siblings.

5.4 Allowance and Saving Pattern

Pocket money is a form of allowance that children will get from their parents, grandparents or relatives. In this section, we intend to find out whether children receive any form of pocket money and if so, how much. Do they save the pocket money and what are the factors affecting their allowance and saving amount. Hence, their allowance and saving pattern were examined in this section.

Table 5.10 shows the distribution between pocket money received and the amount saved from it. Result shows quite a natural trend that is the more money the children received, the more likely that they will save the money (76.3% of children received RM2 and above saved their pocket money). Table 5.10 also reveals that the bigger the amount they received, the more money they would save (positively correlated with Spearman's rho =0.224). This relationship is also reflected by the chi-square test of independence carried out for these two variables (p-value 0.000). The test is highly significant indicating relationship between the two factors.

Pocket Money	Ро	cket M	loney Saved (%)		Total (%)
Received	Did Not Save	Below RM1	RM1 - Below RM2	RM2 and above	
		66.4	-	-	100
Below RM1	33.6		21.0		100
RM1 - Below RM2	34.0	45.0	21.0	01 (100
	23.7	26.3	18.4	31.6	-
RM2 and above	23.1	~= 0	6.6	2.8	100
Total	32.8	57.8	18 0	D and P. Value	= 0.000
10tai	$P_{\rm value} = 0.000$)	Spearman's rho =	0.224 F-Value	• • • • • • • • • • •

Table 5.10: Relationship Between Pocket Money Received and Saved

Pearson $\chi^2 = 194.30$ P-value

Next, we look at pocket money, saving together with the demographic

factors as shown in Table 5.11.

		Pocket	Pocket Money Received	ceived	•		Pock	Pocket Money Saveu	aveu	
	No Pocket Money	Below RM1	RM1- Below RM2	RM2 and above	Total	Don't Save	Below RM1	RM1- Below RM2	RM2 and above	Total
Child'a Age [*] 7 - 8 yrs 9 - 10 yrs 11 - 12 yrs 13 - 14 yrs	6.7 4.4 4.5 0.9	78.7 69.3 66.7 46.8	12.4 21.9 18.9 34.9	· 2.2 4.4 9.9 17.4	100.0 100.0 100.0 100.0	40.7 37.4 26.9 26.9	55.6 58.8 63.5 52.8	2.5 2.3 4.8 16.7	1.2 1.5 4.8 3.7	100.0 100.0 100.0
Gender Male Female	3.9 4.2	66.8 63.1	21.6 23.4	7.8 9.3	100.0	35.6 29.8	56.6 59.0	5.5 7.8	2.3 3.4	100.0
Race ^b Malays Chinese Indians/Others	2.4 8.0 2.7	69.8 47.2 79.5	21.0 32.8 9.6	6.9 12.0 8.2	100.0 100.0 100.0	34.6 31.9 28.2	59.2 51.3 63.4	4.6 10.6 7.0	1.7 6.2 1.4	100.0 100.0 100.0
Education ^c No formal Primary Secondary/LCE/S MCE/SPM HSC/STPM University/Colleg	10.3 5.1 3.9 6.7	59.0 61.6 64.9 80.0 40.0 65.0	20.5 26.1 11.1 26.0 23.3 33.3	10.3 10.0 6.1 5.2 20.0 8.5	100.0 100.0 100.0 100.0 100.0 100.0	45.7 36.9 29.8 23.3 40.0 7.1 3 2.8	42.9 51.7 62.8 71.2 60.0 78.6 57.8	11.4 7.9 4.3 4.1 7.1 7.1 6.6	- 3.4 3.2 1.4 7.1 2.8	100.0 100.0 100.0 100.0 100.0 100.0

Pocket Money Received Pocket Money Saved*		Pocket	Pocket Money Received	ceived			Pock	Pocket Money Saved*	aved*	
	No Pocket Monev	Below RM1	RM1- Below RM2	RM2 and above	Total	Don't Save	Below RM1	RMI- Below RM2	RM2 and above	Total
Household Income ⁴ Up to \$500 \$501-\$1000 \$1501-\$1000 \$1501-\$2000 \$2001-\$3000 Above \$3000	3.4 3.2 6.4 4.3 - 10.5	67.0 69.3 66.7 48.9 72.0 36.8	21.6 20.6 20.5 29.8 16.0 42.1	. 8.0 6.9 6.4 17.0 12.0 10.5	100.0 100.0 100.0 100.0 100.0 100.0	45.9 34.1 27.4 26.7 20.0 11.8	49.4 59.8 60.3 51.1 64.0 76.5	3.5 4.5 11.0 11.1 12.0 5.9	1.2 1.7 1.4 1.1.1 4.0 5.9	100.0 100.0 100.0 100.0 100.0 100.0
Number of Children ^a 1 2 3 4 More than 5	5.3 6.3 3.8 2.3	56.6 58.3 64.2 65.8 80.2	21.1 26.0 24.8 24.1 15.1	17.1 9.4 6.3 2.3	100.0 100.0 100.0 100.0	16.9 32.6 34.9 31.1 45.2	63.4 59.6 54.7 62.2 51.2	11.3 5.6 7.5 3.6	8.5 2.2 1.4	100.0 100.0 100.0 100.0 100.0
Child's Birth Order" 5.3 56.6 21.1 17.1 100.0 16.9 63.4 Only child 5.3 59.7 28.3 9.4 100.0 27.5 60.1 First child 2.5 59.7 28.3 9.4 100.0 27.5 60.1 Neither first nor 4.2 76.1 16.2 3.5 100.0 37.0 60.7 Youngest 5.8 63.8 23.2 7.2 100.0 53.8 40.0 Total 4.0 65.0 22.4 8.5 100.0 32.8 57.8	5.3 2.5 5.8 4.0	56.6 59.7 76.1 63.8 65.0	21.1 28.3 16.2 23.2 22.4	17.1 9.4 3.5 7.2 8.5	100.0 100.0 100.0 100.0 100.0	16.9 27.5 37.0 53.8 32.8	63.4 60.1 60.7 40.0 57.8	11.3 9.8 1.5 4.6 6.6	8.5 2.6 1.5 2.8	100.0 100.0 100.0 100.0 100.0

.

Majority of children received below RM1 (65%), with 4% had no pocket money at all. Only 8.5% received RM2 or more pocket money. Table 5.12 shows that child's age was positively correlated to the pocket money received (Spearman's rho = 0.281), which indicates that as the children were older, the more pocket money they received. This is also reflected by the decreased in frequency for pocket money below RM1 as they were older (Table 5.11). Furthermore, older children received more allowance than the younger ones. 17.4% of children aged between 13 to 14 years old received RM2 and more but among the younger group aged 7 to 8, only 2.2% received the same amount of pocket money. The percentage of those with no pocket money decreased as the child's age increased, which implies that older children will somehow receive some pocket money from the parents.

Demographic Factors	Pocket Money Received (Spearman's rho)	Pocket Money Saved (Spearman's rho)
Child's Age	0.281*	0.183*
Household Income	0.068**	0.209*
Number of Children	-0.124*	-0.188*

Table 5.12: Correlation Coefficients forPocket Money Received and Saved by Selected Demographic Factors

* Significant at the 0.01 level

****** Significant at the 0.15 level

Figures in Table 5.11 shows that 32.8% of the children did not save their pocket money and only 2.8% saved RM2 and above. This may be due to the small amount of pocket money they received, which was just enough to buy their meals in school. However, about 58% of them saved about RM1 or less. Similar pattern was observed as pocket money received, whereby as they grow older, they tend to save more of their allowance. This was also shown by Table 5.12 where the child's age was positively correlated to the pocket money saved (Spearman's rho = 0.183).

Looking at the allowance and saving pattern by gender, it was observed male and female children received about the same amount of pocket money. This is so for all income categories. Males saved less compared to the female children. The percentage of saving across all saving categories for male children was lower than female children. In addition, 35% of male children did not save their pocket money while only 29.8% of female children in this category.

Table 5.11 shows that majority of Indian children (82.2%) received less than RM1 per day or no pocket money and only 8.2% received RM2 and above daily pocket money. Malay and Chinese children received bigger amount of allowance compared to Indian children. 27.9% of Malay children received more than RM1 while 44.8% of Chinese children were in this category. However, although Indian children received less amount of pocket money, but they made up the group with the highest saving ratio among the three groups (71.8%). Looking at the Chinese children, noticed that not only they comprised the highest percentage of those with no pocket money, but at the same time, they were also the largest group (12%) that received more than RM2 pocket money (Malays : 6.9%, Indians : 8.2%).

It was expected that household income would have positive effect towards pocket money received. As shown in Table 5.11, majority of children received below RM1 except for the group where household income was above RM3000. 42.1% of children in this income group received between RM1 to RM2 pocket money. However, the chi-square test of independence (Table 5.11) showed that household income was not significantly related to pocket money received at 0.05 level. In addition, the Spearman rho correlation coefficient (0.068 as shown in Table 5.12) was also not significant at 0.05 level, which implies that household income was only mildly correlated (positively) to the pocket money received.

More children saved their pocket money when the household income increased. There were 88.2% of children in families with household income above RM3000 saved their pocket money but only 54.1% of children in the families of household income below RM500 saved their pocket money. This may due to the fact that children in higher income families received more pocket money (Table 5.12).

It was expected that when the number of children in the family increased, the amount of pocket money received by each of the child decreased. Table 5.11 and Table 5.12 support this view. Table 5.11 shows that for families with more than 5 children, 80.2% received below RM1 and only 2.3% received RM2 and above, whereas only 56.6% of children in one child families received below RM1 and 17% received RM2 and above. Spearman's rho correlation coefficient (-0.124 from Table 5.12) further justified this finding where the negative value indicates that as the number of children in the family increased, the children received less pocket money.

Since the children in one child families received more pocket money, their saving ratio was also higher (83.1%). This pattern was also shown by Table 5.12 (Spearman's rho = -0.188).

Table 5.11 shows that "only child" was the group where more children (17.1%) received RM2 and above. On the other hand, "youngest child" was the group with higher percentage of not receiving any pocket money. However, more than half (53.8%) of the youngest child who received some form of allowance did not save their money.

5.5 Pocket Money Towards Children's Influence

Table 5.13 shows the relationship between various decisions and the pocket money received. Based on the "M/H" ratings, children who did not receive any pocket money tend to have more influence than the other children across all decision items except for restaurant choice. They were the group with highest percentage in making decisions on their own for all the five decisions (i.e. toys, snacks, food, clothes and holiday destination). This implies that the "M/Hs" for this group of children perceived shopping with children as the only way for the children to get what they want. Therefore they were more willing to go along with their children's decisions. However, this interesting pattern was not shown in the child's ratings. Children who had no pocket money seem to perceive themselves to have less influence than the other children. This may due to the fact that without pocket money, the children felt that they have to depend on the parents to make the purchase.

For toys purchase, the percentage of "child decides" increased as the pocket money increased. For snacks purchase, RM2 and above was the group where more "M/Hs" made the purchase decision (23.68% from "M/H" ratings, 26.32% from child's ratings). Children received RM1 to below RM2 were more likely to perceive that they had more influence in snacks purchase (52.04%). Holiday and restaurant choice were the purchase where the decision was mainly made by the "M/Hs". However, "M/Hs" tend to discuss with the children in the selection of holiday and restaurant as they received more pocket money. These indicate that the allowance received will only affect the children's influence for less expensive products such as snacks and toys. Decisions such as holiday destination and restaurant choice were not affected by the children's pocket money.

	Piloti	"M/H"				Child's l	Ratings	
	Child	Joint	"M/H"	Total	Child	Joint	"M/H"	Total
	Decides	Decision	Decides	%	Decides	Decision	Decides	%
Decision : Toys Purchase								
POCMREC*								
No Pocket Money	31.25	68.75	-	100	14.29	85.71	-	100
Below RM1	19.10	65.28	15.63	100	21.79	65.76	12.45	100
RM1-Below RM2	29.00	65.00	6.00	100	26.60	67.02	6.38	100
RM2 and above	21.05	65.79	13.16	100	32.43	51.35	16.22	100
Total	21.95	65.38	12.67	100	23.63	65.42	10.95	100
Decision: Snacks Purcha	se		37°					
POCMREC								
No Pocket Money	44.44	44.44	11.11	100	17.65	70,59	11.76	100
Below RM1	43.94	46.37	9.69	100	50.18	41,22	8.60	100
RM1- Below RM2	42.00	51.00	7.00	100	52.04	38.78	9.18	100
RM2 and above	42.11	34.21	23.68	100	47.37	26.32	26.32	100
Total	43.37	46.29	10,34	100	49.07	40.51	10.42	100
Decision: Food Purchase	•							
POCMREC		50.04	5.88	100	41.18	41.18	17.65	100
No Pocket Money	41.18	52.94		100	41.10	45.68	12.95	100
Below RMI	35.99	47.75	16.26	100	48.98	36.73	14.29	100
RM1-Below RM2	35.00	50.00	15.00	100	40.54	32.43	27.03	100
RM2 and above	39.47	31.58	28.95	100	43.02	42.33	14.65	100
Total	36.26	47.07	16.67	100	45.02			
Decision: Clothing Purc	hase							
POCMREC			12.22	100	17.65	58.82	23.53	100
No Pocket Money	33.33	53.33	13.33	100	9.29	43.57		100
Below RM1	8.30	40.83	50.87		20.83	12/22		100
RM1-Below RM2	19.00	46.00	000 000 mm/mm	100	31.58		2	100
RM2 and above	21.05	47.37		100	14.15			10
Total	12.67	42.99	44.34	100	. 14.15	45.71		
Decision: Holiday Dest	ination							
POCMREC				100	6.67	60,00) 33.33	10
No Pocket Money	13.33	53.33		100	10 11 10 10 10 10 10 10 10 10 10 10 10 1			10
Delew DMI	5.56	201 ALC 101 ALC		100				
Below RM1 RM1- Below RM2	10.00) 46.00					10
KINI - DEIUW KINL	13.10	•s /s	4 42.11					
RM2 and above	7.48	EL		100	8.60	, 4 5.7		
Total		1946 2 0 K						
Decision: Restaurant (Choice							3 10
POCMREC			5 25.00) 100) 13.3	3 53.3		-
No Pocket Money	18.7	101100				1 37.6		
Below RM1	8.0					3 47.3		
RM1-Below RM2	22.0		44			51 59.4		
RM2 and above	13.5						46.4	<u>د</u> ۲
Total	12.0	5 37.7	73 50.2	J 10			1	

Table 5.13: Percent Distribution of Purchase Decision Role by Pocket Money Received

a indicates M/H's rating significant at 10% significant level, child's rating at 20% significant level b indicates M/H's rating significant at 15% significant level, child's rating at 5% significant level c indicates M/H's rating significant at 5% significant level, child's rating at 5% significant level d indicates M/H's rating significant at 10% significant level, child's rating at 5% significant level ġ.

"Marketing Housewives" Versus Children's Ratings 5.6

"M/H" ratings and child's ratings were recoded with 1 representing "M/H" ratings, 2 representing child's ratings. Chi-square test of independence was then carried out to test the relationship between the two ratings to find out whether "M/Hs" and children's perceptions towards children's influence are similar for the six decisions. Results of the test show non-significant at 0.05 significant level, which means their perceptions were rather similar (Table 5.14).

Decision	Group*		
	Pearson χ^2	Sig.	
Toys Purchase	0.792	0.673	
Snacks Purchase	3.233	0.199	
Food Purchase	4.189	0.123	
Clothing Purchase	1.636	0.441	
Holiday Destination	2.708	0.258	
Restaurant Choice	1.976	0.372	
* 1:"M/Hs" ratings	2: Child's ratings		

Table 5.14: Chi-square Test of Independent

"M/H" and child's ratings for the six decisions were further analyzed using Mann Whitney Test to see whether there were differences in their ratings. Using Mann Whitney Test, the mean rank of the two independent samples was compared for significant differences.

Results show that in general, "M/Hs" and children's perceptions were consistent at 0.05 significant level. The mean ranks for children's were lower for all the six decisions as shown in Table 5.15. These indicate that although disagreement did not exist significantly towards the decision-making for these items, children tend to perceive that they had more influence than the "M/Hs".

Children's Influence	"M/H" (Mean Rank)	Child (Mean Rank)
Toys	428.17	416.27
Snacks	449.95	427.72
Food*	452.38	422.14
Clothing	446.69	427.06
Holiday Destination	436.19	411.84
Restaurant Choice	428.84	416.66

Table 5.15 : Mean Rank of Children's Influence Ratings by "M/Hs" and Children

Note: 1=Child decides 2= Joint-decision 3= "M/H" decides. * indicates 0.10 significant level

Discriminant analysis was also carried out to further justify the results observed from the chi-square test of independence and Mann-Whitney test. The discriminant model was form as follow:

 $Group = Constant + c_1Toy + c_2Snack + c_3Food + c_4Clothing + c_5Hol + c_6Rest$

However, none of the variables are significant enough to discriminate the child and the "M/H" in their ratings on how the child perceived themselves and how the "M/H" perceived the children behavior. This reveals that differences in perceptions did not exist between the "M/Hs" and the children in most cases. However, detail analysis for different subgroup and demographic factors were done to gain a better understanding of decision made between the two parties. Mann Whitney Test was applied for this purpose. Table 5.16 summarized the results.

Table 5.16 shows there was differences in the perception for nine demographic subgroups. For children between aged 11 and 12 years old, the differences between "M/Hs" and children were related to food, whereas for children aged between 13 and 14 years old, the disagreement was on clothes purchasing. Interestingly, "M/Hs" aged between 40 to 44 years old had different perception on children's influence as compared to their children in the purchase of food and clothing for no clear explanation. According to Table 5.3 (Section 5.3.1), more than 50° 6 of the children for this group of "M/Hs" were in the aged range of 11 to 14 years old. This may indicate that the differences between "M/Hs" and children's perceptions in food and clothing purchase was mainly among "M/Hs" aged between 40 to 44 years old and children aged 11 to 12 and 13 to 14 respectively.

Demographic Subgroup	Purchase Decision	Mean Rank From "M/H" (Child's) Ratings
Children Aged 11-12	Food*	118.11 (100.73)
Children Aged 13-14	Clothing*	119.10 (98.81)
	Clothing*	110.16 (93.60)
"M/Hs" Aged 40-44	Food**	108.13 (95.68)
•	Food*	224.14 (197.42)
Female Children	Snacks**	222.26 (201.49)
		255.09 (226.26)
Malays	Food* Snacks*	253.19 (230.28)
	(mm) (10)(1000)	78.86 (67.06)
Indians	Clothing**	76.12 (65.51)
	Toys**	197.01 (172.52)
Household Income	Food*	196.98 (172.42)
M501-RM1000	Snacks*	90.98 (78.80)
More Than 5 Children	Clothing**	91.40 (78.37)
More Than 5 Children	Food**	
	Food*	167.14 (146.66)
First Child	** Si	gnificant at 0.10 level

Table 5.16: Disagreement Between "M/H" and Child's Perceptions

* Significant at 0.05 level

The disagreement in perceptions between female children and the "M/Hs" was for food. The result reveals that Malay children had difference of opinion in decision relating to food and snacks purchase, whereas Indian children were in disagreement with the "M/Hs" for the purchase of clothing and toys.

Families with household income of RM501 to RM1000 had conflict between the children and the "M/Hs" in the purchase of food and snacks. Children in this income group tend to believe that they had more influence in deciding what food and snacks to buy, however, the "M/Hs" thought it was joint-decision (refer also Table 5.5 for snacks purchase and Table 5.6 for food purchase).

First child was found to have different perception towards their influence as compared to the "M/Hs" perception in food purchase. Furthermore, children with 5 or more siblings also have different perception as compared to the "M/Hs" in the purchase of food and clothing. As shown in Figure 4.8, only child and the youngest child had more influence for all the six decision. Therefore, this disagreement may be due to biases that exist in the families with more children.

Logistic Regression 5.7

In order to further examine the effect of independent variables (such as child's age, race, household income, gender, pocket money and birth order) toward children's influence on various family decisions simultaneously, logistic regression was carried out.

The dependent variable for the logistic regression model is the dichotomous variable, indicating whether children have influence in the family decision-making (1 has influence, 0 = no influence). Therefore, for each of the decision, the decision made entirely by the child or as joint-decision with the "M/H" was coded as 1 and no decision was coded as 0.

The independent variables included for the analysis are child's age, race, household income, child's birth order, pocket money and child's gender. The variables in the model are defined as follow:

Age : age of the child, range from 7 to 14

Malays^a : 1 if the child is a Malays and 0 otherwise.

Chi^{*} : 1 if the child is a Chinese and 0 otherwise.

Incl^b : 1 if the household income was below RM500 and 0 otherwise.

- Inc2^b : 1 if the household income was between RM501 to RM1000 and 0 otherwise.
- Inc3^b : 1 if the household income was between RM1001 to RM1500 and 0 otherwise.
- Inc4^b : 1 if the household income was between RM1501 to RM2000 and 0 otherwise.

Inc5^b : 1 if the household income was between RM2001 to RM3000

- Ochild^c : 1 if the child was the only child in the family and 0 otherwise.
- Fchild^c : 1 if the child was the first child in the family and 0 otherwise.

- NFNO^c : 1 if the child was neither the first nor the only child in the family and 0 otherwise.
- $PocMl^d$: 1 if the child had no pocket money and 0 otherwise.
- PocM2^d : 1 if the child received below RM1 as pocket money and 0 otherwise.
- PocM3^d : 1 if the child received RM1 to below RM2 as pocket money and 0 otherwise.
- Male^e : 1 if the child was a male and 0 otherwise.

The logistic model can be written as follow:

 $Z = Const + c_1Age + c_2Malay + c_3Chi + c_4Inc1 + c_5Inc2 + c_6Inc3 + c_7Inc4$

+ $c_8Inc5 + c_9Ochild + c_{10}Fchild + c_{11}NFNO + c_{12}PocM1 + c_{13}PocM2$

 $+ c_{14}PocM3 + c_{15}Male$

where $c_i = regression$ coefficient for ith independent variables, with i = 1, 2, 3, ..., 15

P(child has influence = 1) = $1/1 + e^{-z}$

There are six regression models to be fitted, one for each of the decision (toys, snacks, food, clothes, holiday and restaurant choice)

Notes:

- b Income above RM3000 was the dummy group
- c Younger child was the dummy group
- d Pocket money above RM2 was the dummy group
- e Female child was the dummy group

a Indians was the dummy group

Table 5.17 shows that the chi-square model was significant at 5% significant level for all the decisions except for snacks purchased. These results indicate that the coefficients for each of the regression model were significantly different from zero and had some influence on the model. In other words, these five logistic models were appropriate at 5% significant level.

			and the second secon
Purchase Decision	Chi-square Model	Sig	Overall Prediction (Percent Correct)
	43,402	0.000	88.01
Toys	23.782	0.069	89.66
Snacks	27.444	0.025	83.33
Food		0.000	63.35
Clothing	42.588	0.000	58.96
Holiday Destination	40.164	0.000	65.00
Restaurant Choice	62.843	0.000	

Table 5.17: Chi-square Model and Overall Predictionof the Logistic Regression Model

Table 5.18 shows the coefficient for independent variables in the logistic model. The asterisk indicates that the respective independent variables made a significant contribution to the logistic model. As we could observe for toys purchase, child's age, race, income, birth order and gender were the variables that could significantly predict the probability of the children to have influence. Pocket money was the only predictor variable that made a significant contribution to the model for snacks, whereas race and pocket money could predict the probability of a child to have influence in clothing and restaurant choice. The model for holiday child to have influence in clothing and restaurant choice. As for food, the predictor variables (i.e. race, income and pocket money) made a significant contribution to the logistic model.

Variables
or Independent
Coefficient fo
Regression
Table 5.18:

Coust Age Mala Cui<							Reg	ression	Regression Coefficient (B)	ient (B							
		Const	Age	Malay	Chi	Incl	Inc2	Inc3	Inc4	Inc5	Ochild	Fchild	NFNO			PocM 3	Male
(3)-0.5180.080-0.3650.2130.2690.3840.9741.1066.504-0.0570.458-0.0641.261*1.475*1.661-0.525-0.0430.071*0.9430.7150.912*1.533*1.641*1.8940.8470.4740.2621.926*1.063*1.085- ing 0.558-0.0430.7150.912*1.533*1.641*1.8940.8470.4740.262*1.926*1.063*1.083- ing 0.558-0.040*0.9430.7150.9120.4280.0220.9880.1870.1130.1410.789*0.870-0.267- ination 0.558-0.079*0.9900.3220.0680.5050.087*1.965-0.039-0.239-0.704-0.2120 ination 0.557-0.0390.5050.088*1.965-0.039-0.230-0.704-0.2120 ination 0.577*1.135*1.159-0.536-0.916-0.1910.388-0.101-0.075-0.3990.230-0.704-0.2120 ination 1.300-0.077*1.135*1.159-0.536-0.916-0.1230.238-0.101-0.075-0.487-0.2120 ination -0.077*1.135*1.159-0.536-0.1230.238-0.101-0.075-0.239-0.235-0.265-0.265	Toys	1.335	*-0.187	1	*1.057		1.013	1.338	*2.184	2.359	0.453	*1.075	0.588	6.010	-0.425	0.721	*0.661
-0.525 -0.043 0.071 $*0.943$ 0.715 0.912 $*1.533$ $*1.641$ $*1.894$ 0.847 0.474 0.262 1.926 $*1.063$ $*1.083$ ing 0.658 -0.070 $*0.961$ $*1.202$ -0.233 -0.044 0.428 -0.022 0.988 0.187 0.113 0.141 0.789 $*-0.870$ -0.267 -0.267 ingion 0.658 -0.070 $*0.961$ $*1.202$ -0.233 -0.044 0.428 -0.022 0.988 0.187 0.113 0.141 0.789 $*-0.870$ -0.267 -0.267 ingion 0.658 -0.079 $*0.990$ 0.322 0.068 0.505 0.087 $*1.965$ -0.039 0.220 -0.704 -0.704 -0.212 0 ingion 0.357 -0.077 $*1.135$ $*1.159$ -0.636 -0.142 0.021 0.388 -0.101 -0.228 -0.399 0.230 -0.704 -0.712 0 ingion 0.077 $*1.135$ $*1.159$ -0.636 -0.142 0.021 0.388 -0.101 -0.075 -0.787 -0.787 -0.787 -0.787 -0.704 -0.212 0	Snacks	-0.518	0.080	-0.365	0.213	0.269	0.384	0.974	1.106	6.504	-0.057	0.458	-0.064	1.261	*1.475	*1.661	0.085
0.658 -0.070 *0.961 *1.202 -0.233 -0.044 0.428 -0.022 0.988 0.187 0.113 0.141 0.789 *-0.8770 -0.267 on 0.357 -0.079 *0.857 *0.990 0.322 0.068 0.505 0.087 *1.965 -0.039 -0.230 -0.704 -0.212 on 1.300 -0.077 *1.155 -0.636 -0.142 0.021 0.388 -0.101 -0.075 -0.487 *1.032 -0.265 -	Food	-0.525		0.007	*0.943	0.715	0.912	*1.533	*1.641	*1.894	0.847	0.474	0.262	1.926	*1.063	*1.085	0.015
0.357 -0.079 *0.857 *0.990 0.322 0.068 0.505 0.087 *1.965 -0.039 -0.228 -0.399 0.230 -0.704 -0.212 ion aut 1.300 -0.077 *1.135 *1.159 -0.636 -0.916 -0.142 0.021 0.388 -0.101 -0.075 -0.487 0.200 *-1.032 -0.265	Clothing	0.658	-0.070	*0.961	*1.202		-0.044	0.428	-0.022	0.988	0.187	0.113		0.789	*-0.870		-0.208
1.300 -0.077 *1.135 *1.159 -0.636 -0.916 -0.142 0.021 0.388 -0.101 -0.075 -0.487 0.200 *-1.032 -0.265	Holiday Destination	0.357	-0.079	*0.857	*0.990	0.322	0.068	0.505	0.087	*1.965							0.038
	Restaurant Choice	1.300	-0.077		*1.159	-0.636	-0.916	-0.142	0.021								.022

*Significant at 5% significant level

The coefficient for age is negative and only significant at 5% level for toys purchase decision. This indicates that with all other variables remain constant, the probability of a child to have influence on toys purchase decreased as child's age increased. This finding was different from what we observed in the previous section where children's influence increased with age (Section 4.2 and Section 5.3.1). This may be caused by the recoding process where we included the joint decision for logistic analysis, whereas for previous section, we only considered the child's individual decision.

Race has the coefficient that was significant at 5% level for all decisions except for snacks. The coefficient for Malays and Chinese were positive, which means Malay and Chinese children had higher probability to exercise their influence than Indian children in family decisions making. Looking at Malay and Chinese children, it was found that Chinese children had more influence since the coefficients for Chinese were higher for all the six decisions.

Coefficient for Inc3 (income RM1001 to RM1500), Inc4 (income RM1501 to RM2000) and Inc5 (income RM2001 to RM3000) were significant at 5% level for food purchase. The positive value of the coefficients indicate that children in the families with household income RM1001 to RM3000 had higher chances to involve in the decision-making for the purchase of food than children in families with household income above RM3000. Among these three income groups, probability for children's influence in Inc5 (RM2001 to RM3000) was the highest, followed by Inc4 (RM1501 to RM2000) and Inc3 (RM1001 to Rm1500). In other words, children's influence in food increased with household income, as also shown in children's 5.3.3. Children in Inc4 (RM1501 to RM2000) also had significant influence

on toys purchase, whereas children in Inc5 (RM2001 to RM3000) had significant influence on holiday destination.

Children received below RM1 (PocM2) and between RM1 to RM2 (PocM3) daily pocket money had significant influence on both snacks and food purchase. The positive value for the coefficients show that children received below RM1 and hetween RM1 to RM2 had higher chances to have influence in these decisions than children who received RM2 and above pocket money. Coefficient for PocM3 (hetween RM1 to RM2) is higher than PocM2 (below RM1) in both snacks and food model, which means children received PocM3 had higher probability to involve in these purchase decision than children received PocM2. Children received PocM2 (below RM1) also had significant influence in making decision for clothing and restaurant choice. However, the negative values indicate that children received below RM1 had lower probability to exercise their influence than children received RM2 and above in making decision for these two items.

Gender only had significant influence on toys purchase at 5% significant level. The positive value for the coefficient shows that male children had higher probability to have influence on toys purchase as compared to female children. This may be due to the fact that male children were more persistent in getting the toys that they want. Birth order only contributes to the toys model where the probability of first child to have influence on toys is significantly higher than youngest child in

the family. The probability that a child has influence in family decision-making can be calculated based on the coefficient presented in Table 5.18. For example, for a Chinese child age 9, first child of the family with RM1501 to RM2000 household income and received below RM1 daily pocket money, the probability for him/her to have influence on toys purchase decision is 0.972. In other words, 97.2% of such individual could be expected to have influence on toys purchase.

Calculations were also done for other decisions for Malay and Indian children based on the same background. The result is presented in Table 5.19.

	Expected Probability (Chinese)	Expected Probability (Malays)	Expected Probability (Indians)
Toys	0.972	0,971	0.923
Snacks	0.969	0.947	0.962
	0.961	0.907	0,906
Food	0.610	0.552	0.320
Clothing		0.415	0.231
Holiday Destination	0.447	0.658	0.382
Restaurant Choice	0.663	0.038	

Table 5.19: Probability Children Had Influence in Family Decision-making

*Value for the remaining independent variables was zero

Once again, result shows that Chinese children had higher probability in exercising their influence than Malay children for all the six decisions. Indian children had the least influence among these three groups. However, for snacks purchase, Indian children had higher probability to have influence than Malay

children.