

## Appendix G OLR Q1 Item Analysis

Challenges experienced studying Economics:

Item 1 Building up knowledge of Economics

		Parameter Estimates				
		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	.061	.072	.706	1	.401
	LSEnsIntuit	-.003	.068	.002	1	.967
	LSVisVerbal	-.002	.065	.001	1	.980
	LSSEqGlobal	-.007	.084	.008	1	.931
	MEANexEC	-.018	.018	1.019	1	.313
	q0004_0001	.532	.195	7.442	1	.006
	q0004_0002	-.031	.208	.022	1	.882
	q0004_0003	-.101	.186	.296	1	.586
	q0004_0004	.091	.178	.258	1	.611
	q0004_0005	.167	.173	.928	1	.335
	q0004_0006	-.055	.164	.111	1	.739
	AgeofStudent	.007	.022	.102	1	.749
	q0002_0001	1.118	.215	26.961	1	.000
	[DUMMYHQ=.00]	.375	.396	.894	1	.344
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	.319	.400	.635	1	.426
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-.692	.341	4.114	1	.043
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	-.347	.370	.876	1	.349
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	-.098	.596	.027	1	.870
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	-.083	.726	.013	1	.909
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.369	.467	.625	1	.429
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	.620	.531	1.364	1	.243
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.509	.479	1.131	1	.288
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	.014	.648	.000	1	.982
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.

Item 2 Understanding theory and concepts

Parameter Estimates

		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	-.049	.073	.446	1	.504
	LSSEnsIntuit	.143	.069	4.340	1	.037
	LSVisVerbal	-.062	.065	.905	1	.341
	LSSEqGlobal	-.128	.085	2.259	1	.133
	MEANexEC	-.037	.019	3.984	1	.046
	q0004_0001	.252	.195	1.678	1	.195
	q0004_0002	.318	.209	2.306	1	.129
	q0004_0003	-.021	.187	.013	1	.910
	q0004_0004	.028	.179	.025	1	.875
	q0004_0005	.364	.174	4.388	1	.036
	q0004_0006	.021	.164	.016	1	.900
	AgeofStudent	.000	.022	.000	1	.988
	q0002_0002	1.237	.237	27.173	1	.000
	[DUMMYHQ=.00]	.124	.400	.096	1	.756
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	.200	.404	.246	1	.620
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-1.000	.345	8.388	1	.004
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	.195	.371	.275	1	.600
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	.180	.590	.093	1	.760
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	.402	.726	.307	1	.580
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.154	.467	.109	1	.741
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	.089	.536	.028	1	.868
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.500	.480	1.087	1	.297
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	-.642	.684	.883	1	.347
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.

Item 3 Understanding numerical calculations

Parameter Estimates

Location	LSActiveRefl					
	LSSEnsIntuit	-.001	.069	.000	1	.993
	LSVisVerbal	.106	.067	2.511	1	.113
	LSSEqGlobal	.132	.088	2.255	1	.133
	MEANexEC	.011	.019	.348	1	.555
	q0004_0001	.301	.197	2.330	1	.127
	q0004_0002	.364	.215	2.860	1	.091
	q0004_0003	-.383	.194	3.884	1	.049
	q0004_0004	1.570E-05	.184	.000	1	1.000
	q0004_0005	.127	.177	.516	1	.473
	q0004_0006	.245	.168	2.135	1	.144
	AgeofStudent	.015	.022	.436	1	.509
	q0002_0003	1.787	.249	51.388	1	.000
	[DUMMYHQ=.00]	-.299	.414	.524	1	.469
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	-.807	.409	3.904	1	.048
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	.192	.342	.314	1	.575
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	.635	.372	2.910	1	.088
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	.685	.600	1.303	1	.254
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	-.628	.731	.737	1	.391
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.550	.478	1.325	1	.250
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	.749	.543	1.902	1	.168
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	.812	.505	2.585	1	.108
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	-.145	.689	.044	1	.834
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.

Item 4 Applying theory to business problems

Parameter Estimates

		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	.074	.074	1.003	1	.316
	LSSEnsIntuit	.200	.069	8.394	1	.004
	LSVisVerbal	-.119	.066	3.279	1	.070
	LSSEqGlobal	-.061	.085	.505	1	.477
	MEANexEC	-.017	.018	.841	1	.359
	q0004_0001	.111	.195	.323	1	.570
	q0004_0002	.064	.210	.093	1	.761
	q0004_0003	.162	.186	.756	1	.385
	q0004_0004	.086	.181	.227	1	.634
	q0004_0005	.277	.172	2.600	1	.107
	q0004_0006	.072	.164	.190	1	.663
	AgeofStudent	-.010	.022	.223	1	.637
	q0002_0004	1.346	.225	35.863	1	.000
	[DUMMYHQ=.00]	-.138	.402	.118	1	.731
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	.324	.411	.621	1	.431
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-.424	.341	1.546	1	.214
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	-.270	.376	.516	1	.473
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	.270	.592	.207	1	.649
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	.112	.730	.024	1	.878
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.391	.470	.691	1	.406
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	-.080	.540	.022	1	.883
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.063	.480	.017	1	.896
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	-.369	.694	.282	1	.595
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Item 5 Understanding relevance of theory to real world

		Parameter Estimates				
		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	-.005	.073	.006	1	.940
	LSSEnsIntuit	-.027	.067	.167	1	.683
	LSVisVerbal	-.088	.065	1.827	1	.176
	LSSEqGlobal	.150	.085	3.134	1	.077
	MEANexEC	-.007	.018	.164	1	.685
	q0004_0001	.012	.191	.004	1	.951
	q0004_0002	.140	.206	.461	1	.497
	q0004_0003	.403	.187	4.650	1	.031
	q0004_0004	-.052	.178	.085	1	.771
	q0004_0005	.227	.172	1.756	1	.185
	q0004_0006	.105	.162	.418	1	.518
	AgeofStudent	.012	.022	.287	1	.592
	q0002_0005	1.383	.206	45.125	1	.000
	[DUMMYHQ=.00]	.248	.396	.392	1	.531
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	-.761	.398	3.662	1	.056
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-.546	.339	2.601	1	.107
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	.419	.368	1.297	1	.255
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	.277	.585	.224	1	.636
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	-.263	.713	.137	1	.712
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	.013	.460	.001	1	.978
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	.110	.533	.043	1	.836
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.759	.473	2.571	1	.109
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	-.611	.674	.821	1	.365
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.

Item 6 Linking different theories together

		Parameter Estimates				
		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	.007	.074	.009	1	.925
	LSSEnsIntuit	-.059	.068	.737	1	.391
	LSVisVerbal	-.179	.067	7.202	1	.007
	LSSEqGlobal	.170	.086	3.872	1	.049
	MEANexEC	.031	.019	2.826	1	.093
	q0004_0001	.400	.199	4.057	1	.044
	q0004_0002	-.140	.213	.427	1	.513
	q0004_0003	.151	.189	.643	1	.423
	q0004_0004	.243	.182	1.782	1	.182
	q0004_0005	-.173	.174	.988	1	.320
	q0004_0006	.002	.164	.000	1	.988
	AgeofStudent	-.013	.023	.311	1	.577
	q0002_0006	1.436	.226	40.395	1	.000
	[DUMMYHQ=.00]	.661	.418	2.500	1	.114
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	.408	.408	1.002	1	.317
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-.381	.345	1.223	1	.269
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	.617	.374	2.716	1	.099
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	-.481	.603	.638	1	.425
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	-.176	.735	.057	1	.811
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.637	.472	1.818	1	.178
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	-.308	.544	.320	1	.572
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.364	.482	.570	1	.450
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	.287	.703	.167	1	.683
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.

Item 7 Applying skills to specific business problems

		Parameter Estimates				
		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	.003	.076	.001	1	.971
	LSSEnsIntuit	.187	.070	7.140	1	.008
	LSVisVerbal	-.137	.069	3.983	1	.046
	LSSEqGlobal	-.005	.087	.004	1	.953
	MEANexEC	-.018	.018	.990	1	.320
	q0004_0001	-.102	.200	.260	1	.610
	q0004_0002	.272	.216	1.589	1	.208
	q0004_0003	.133	.188	.498	1	.481
	q0004_0004	-.039	.182	.046	1	.831
	q0004_0005	.515	.178	8.400	1	.004
	q0004_0006	-.059	.166	.129	1	.720
	AgeofStudent	.017	.023	.576	1	.448
	q0002_0007	1.416	.226	39.325	1	.000
	[DUMMYHQ=.00]	.259	.414	.393	1	.531
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	.548	.421	1.689	1	.194
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-1.008	.352	8.225	1	.004
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	.125	.379	.108	1	.742
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	-.129	.601	.046	1	.831
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	-.031	.749	.002	1	.967
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.604	.475	1.621	1	.203
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	.062	.544	.013	1	.909
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.302	.483	.391	1	.532
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	-.204	.693	.087	1	.768
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.

Item 8 Solving complex business problems

		Parameter Estimates				
		Estimate	Std. Error	Wald	df	Sig.
Location	LSActiveRefl	-.004	.075	.003	1	.953
	LSSEnsIntuit	.138	.070	3.912	1	.048
	LSVisVerbal	.017	.066	.065	1	.798
	LSSEqGlobal	.139	.087	2.537	1	.111
	MEANexEC	-.042	.019	5.018	1	.025
	q0004_0001	.099	.204	.232	1	.630
	q0004_0002	.288	.232	1.540	1	.215
	q0004_0003	.009	.188	.002	1	.961
	q0004_0004	-.259	.192	1.830	1	.176
	q0004_0005	.294	.177	2.773	1	.096
	q0004_0006	.100	.165	.365	1	.546
	AgeofStudent	.005	.022	.048	1	.826
	q0002_0008	1.464	.222	43.487	1	.000
	[DUMMYHQ=.00]	.131	.420	.097	1	.755
	[DUMMYHQ=1.00]	0 <sup>a</sup>			0	
	[DUMMYGender=.00]	.414	.427	.939	1	.333
	[DUMMYGender=1.00]	0 <sup>a</sup>			0	
	[DUMMYPrevStudy=.00]	-.979	.356	7.575	1	.006
	[DUMMYPrevStudy=1.00]	0 <sup>a</sup>			0	
	[DUMMYENGLISH=.00]	.096	.382	.063	1	.802
	[DUMMYENGLISH=1.00]	0 <sup>a</sup>			0	
	[DUMMYNAMERICA=.00]	.223	.600	.138	1	.710
	[DUMMYNAMERICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYTANDT=.00]	-.051	.750	.005	1	.946
	[DUMMYTANDT=1.00]	0 <sup>a</sup>			0	
	[DUMMYAFRICA=.00]	-.737	.479	2.362	1	.124
	[DUMMYAFRICA=1.00]	0 <sup>a</sup>			0	
	[DUMMYROW=.00]	-.057	.550	.011	1	.917
	[DUMMYROW=1.00]	0 <sup>a</sup>			0	
	[DUMMYEMPLOYED=.00]	-.484	.525	.849	1	.357
	[DUMMYEMPLOYED=1.00]	0 <sup>a</sup>			0	
	[DUMMYFIRSTATTEMPT=.00]	-.586	.704	.694	1	.405
	[DUMMYFIRSTATTEMPT=1.00]	0 <sup>a</sup>			0	

Link function: Logit.

a. This parameter is set to zero because it is redundant.