1 Philosophical Foundations

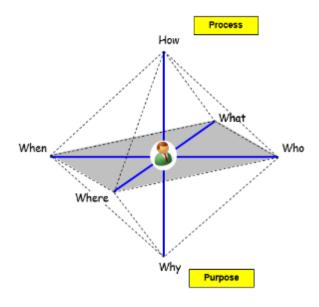


Figure 1.1 The interrogatives diamond

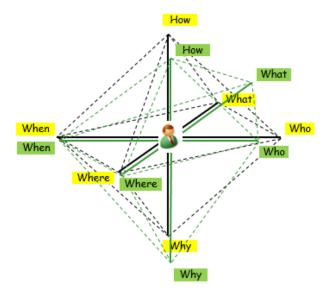


Figure 1.2 Differences between observer (green) and reality (yellow)

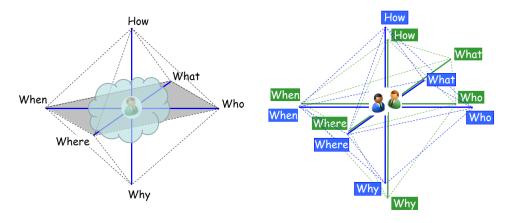


Figure 1.3 Positivist (left) and constructionist (right) perspectives

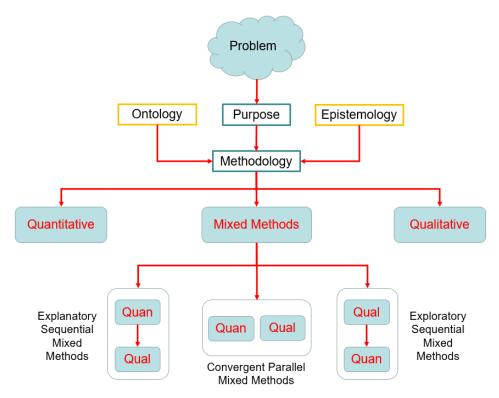


Figure 1.4 Research methodologies

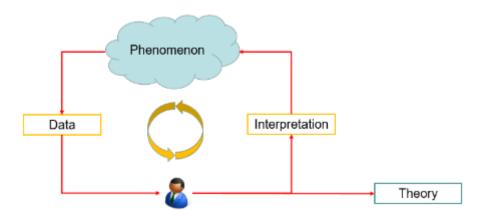


Figure 1.5 Qualitative inquiry process

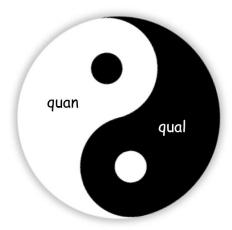


Figure 1.6 Mixed methods research philosophy

2 The Quantitative Research Process

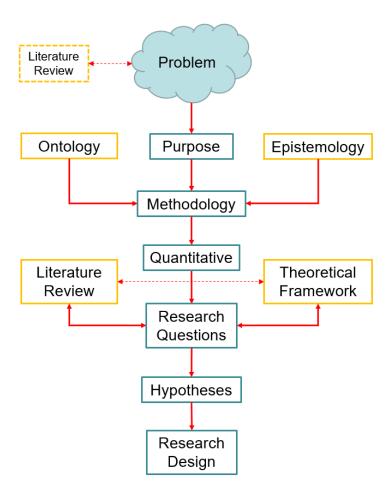


Figure 2.1 The initial phases of the quantitative research process

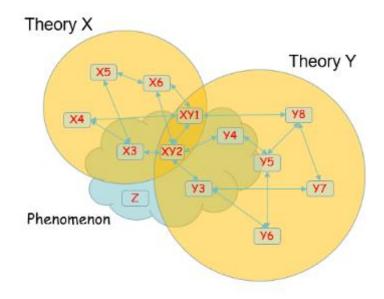


Figure 2.2 Theoretical framework constructs development

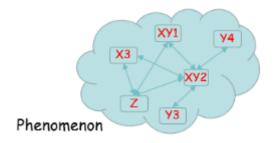


Figure 2.3 Proposed theoretical framework

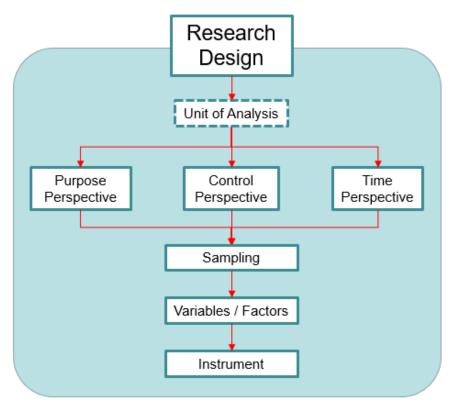


Figure 2.4 Research design elements

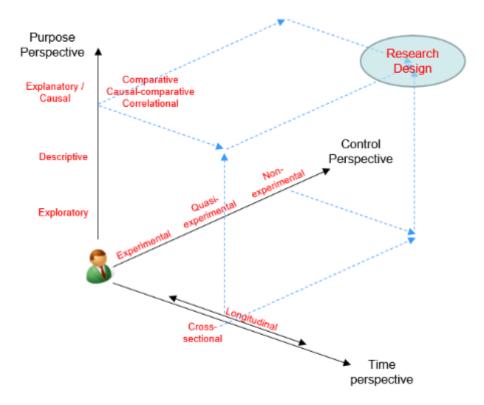


Figure 2.5 Research design perspectives

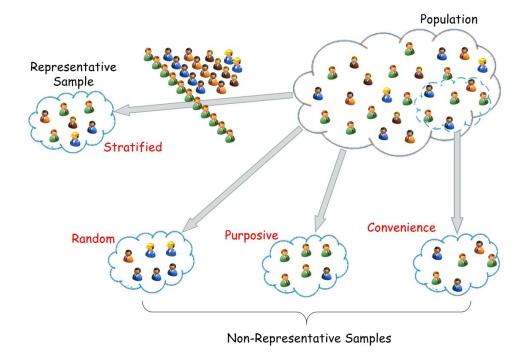


Figure 2.6 Sample representativeness

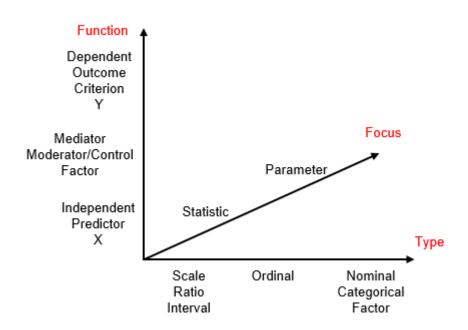


Figure 2.7 Variables in quantitative research

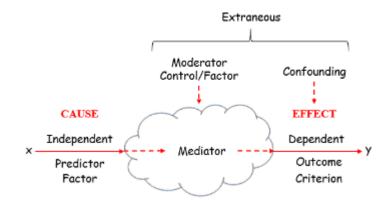


Figure 2.8 Variables in cause and effect relationships

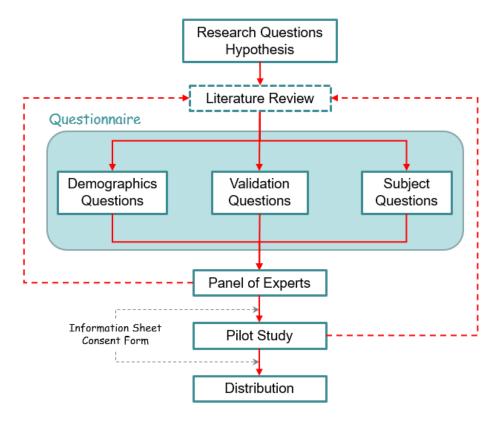


Figure 2.9 Questionnaire development process

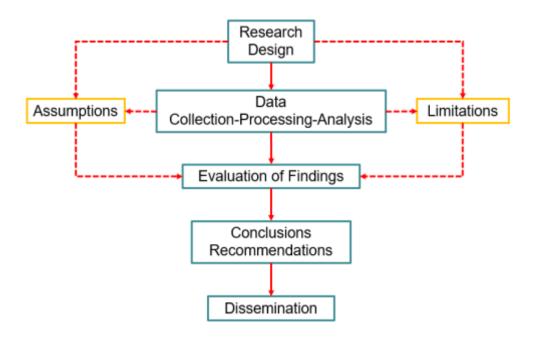


Figure 2.10 Final research phases

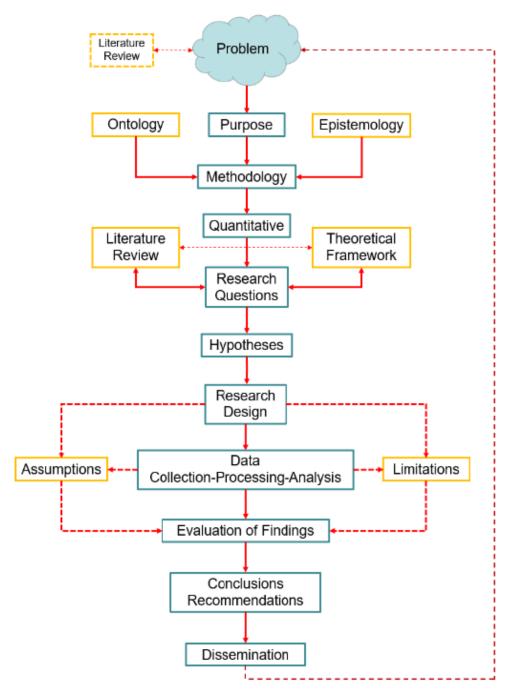


Figure 2.11 The quantitative research process

3 Populations

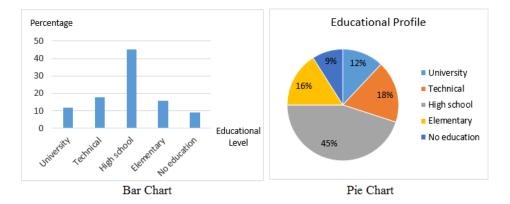


Figure 3.1 Profile representation for categorical variables

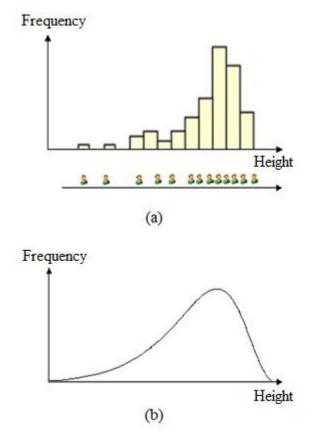


Figure 3.2 Bar chart and distribution of a scale variable

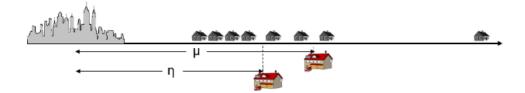


Figure 3.3 Population mean and median

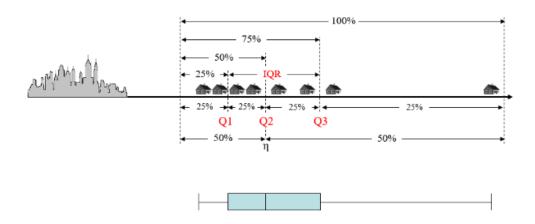


Figure 3.4 Quartiles (top) and box plot (bottom)

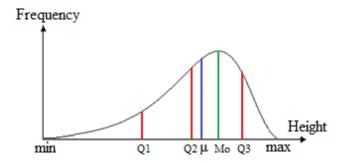
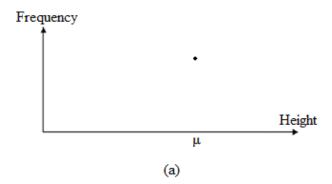
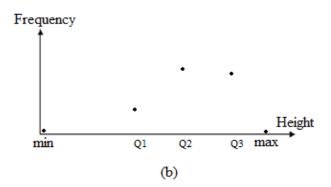


Figure 3.5 Characteristic population parameters





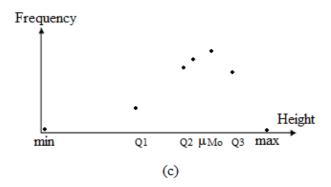


Figure 3.6 Parameters and curve shape approximation

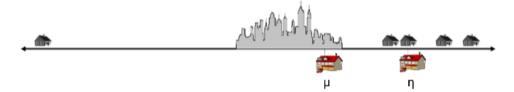


Figure 3.7 Influence of opposite sign values on the mean

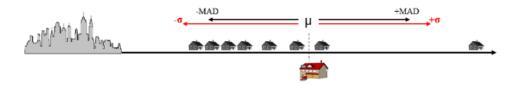


Figure 3.8 Mean absolute deviation and standard deviation

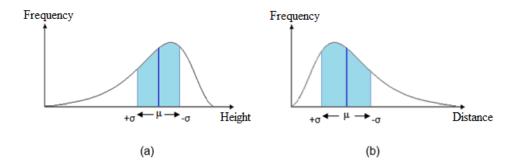


Figure 3.9 Mean and standard deviation

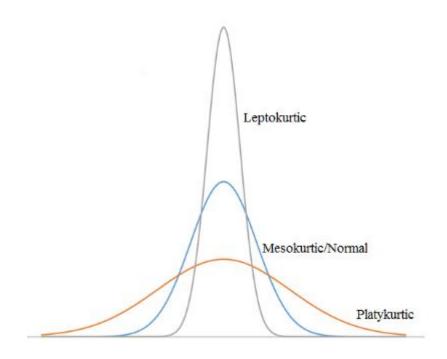


Figure 3.10 Kurtosis effect of profile/distribution curve

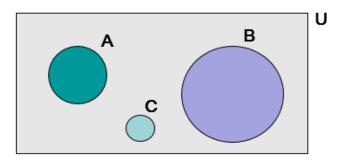


Figure 3.11 Probability definition

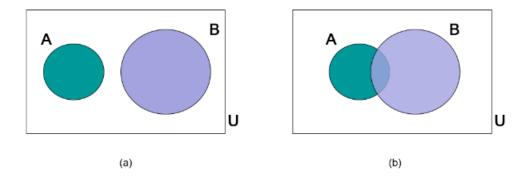


Figure 3.12 Possible attributes arrangements

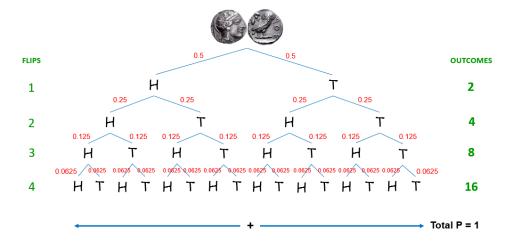


Figure 3.13 Decision tree for coin flip

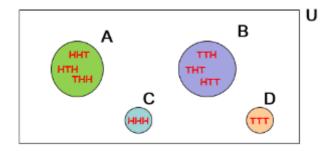


Figure 3.14 Three-coin flip universe

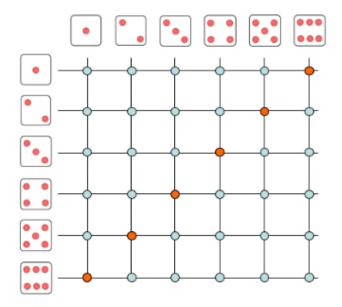


Figure 3.15 Dice universe

Probability 0.180 0.160 0.140 0.120 0.100 0.080 0.060 0.040 0.020 0.000 5 6 7 8 9 1 2 3 4 10 11 12 13 Dice Sum

Figure 3.16 Dice universe probability distribution

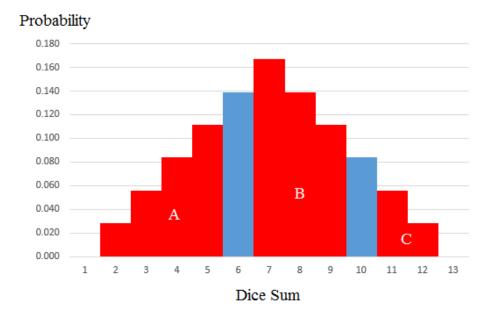


Figure 3.17 Dice universe probability distribution areas

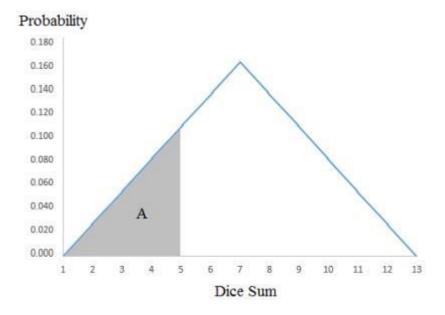


Figure 3.18 Probability as area under the distribution curve

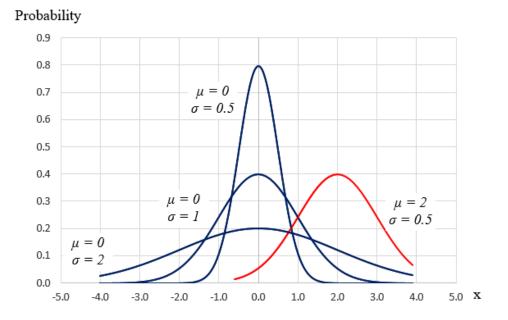


Figure 3.19 Normal distribution graphs

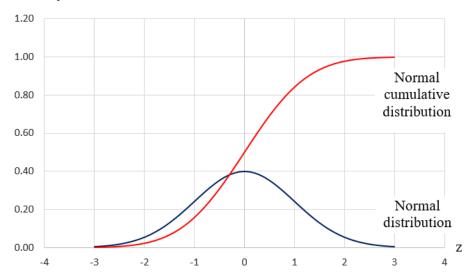


Figure 3.20 Standardized normal distribution

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.520	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7473	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8108	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9:70	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	4110	0.0100	0.0171	-0.0	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9982	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9464	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9132	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9188	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9 34	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.971	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.0000	0.000/		0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990

Figure 3.21 Table of positive z values

Probability 0.45 0.40 0.35 0.30 0.25 0.20 0.15 a = power 95% 0.10 0.05 b = confidence0.00 Z 2 -2 0 1 3 -4 -3 -1 Critical

Figure 3.22 One-tail power and confidence

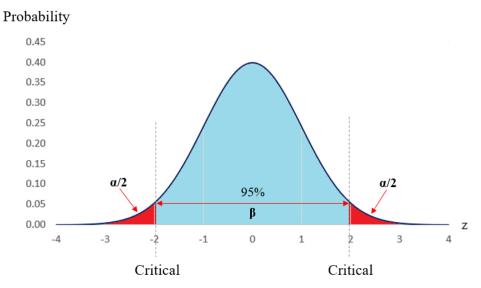


Figure 3.23 Two-tail power and confidence

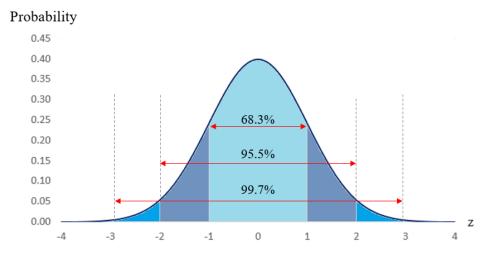


Figure 3.24 Population under normal curve

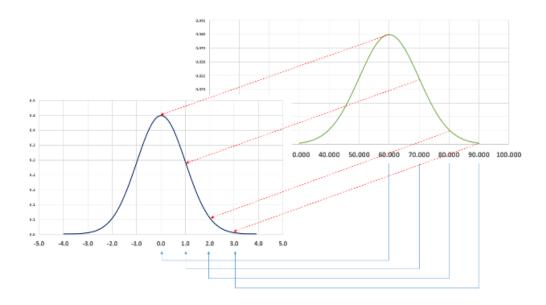


Figure 3.25 Mapping a normal curve to the standardized normal curve



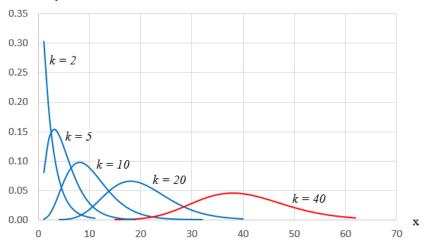


Figure 3.26 Chi-distribution graphs

p

	0.90	0.80	0.70	0.60	0.50	0.40	0.30	0.20	0.10	0.05	0.04	0.03	0.02	0.01	
1	0.02	0.06	0.15	0.27	0.45	0.71	1.07	1.64	2.71	3.84	4.22	4.71	5.41	6.63	10.83
2	0.21	0.45	0.71	1.02	1.39	1.83	2.41	3.22	4.61	5.99	6.44	7.01	7.82	9.21	13.82
3	0.58	1.01	1.42	1.87	2.37	2.95	3.66	4.64	6.25	7.81	8.31	8.95	9.84	11.34	16.27
4	1.06	1.65	2.19	2.75	3.36	4.04	4.88	5.99	7.78	9.49	10.03	10.71	11.67	13.28	18.47
5	1.61	2.34	3.00	3.66	4.35	5.13	6.06	7.29	9.24	11.07	11.64	12.37	13.39	15.09	20.52
6	2.20	3.07	3.83	4.57	5.35	6.21	7.23	8.56	10.64	12.59	13.20	13.97	15.03	16.81	22.46
7	2.83	3.82	4.67	5.49	6.35	7.28	8.38	9.80	12.02	14.07	14.70	15.51	16.62	18.48	24.32
8	3.49	4.59	5.53	6.42	7.34	8.35	9.52	11.03	13.36	15.51	16.17	17.01	18.17	20.09	26.12
9	4.17	5.38	6.39	7.36	8.34	9.41	10.66	12.24	14.68	16.92	17.61	18.48	19.68	21.67	27.88
10	4.87	6.18	7.27	8.30	9.34	10.47	11.78	13.44	15.99	18.31	19.02	19.92	21.16	23.21	29.59
11	5.58	6.99	8.15	9.24	10.34	11.53	12.90	14.63	17.28	19.68	20.41	21.34	22.62	24.72	31.26
12	6.30	7.81	9.03	10.18	11.34	12.58	14.01	15.81	18.55	21.03	21.79	22.74	24.05	26.22	32.91
13	7.04	8.63	9.93	11.13	12.34	13.64	15.12	16.98	19.81	22.36	23.14	24.12	25.47	27.69	34.53
14	7.79	9.47	10.82	12.08	13.34	14.69	16.22	18.15	21.06	23.68	24.49	25.49	26.87	29.14	36.12
15	8.55	10.31	11.72	13.03	14.34	15.73	17.32	19.31	22.31	25.00	25.82	26.85	28.26	30.58	37.70
16	9.31	11.15	12.62	13.98	15.34	16.78	18.42	20.47	23.54	26.30	27.14	28.19	29.63	32.00	39.25
17	10.09	12.00	13.53	14.94	16.34	17.82	19.51	21.61	24.77	27.59	28.44	29.52	31.00	33.41	40.79
18	10.86	12.86	14.44	15.89	17.34	18.87	20.60	22.76	25.99	28.87	29.75	30.84	32.35	34.81	42.31
19	11.65	13.72	15.35	16.85	18.34	19.91	21.69	23.90	27.20	30.14	31.04	32.16	33.69	36.19	43.82
20	12.44	14.58	16.27	17.81	19.34	20.95	22.77	25.04	28.41	31.41	32.32	33.46	35.02	37.57	45.31

Figure 3.27 Table of chi-square values

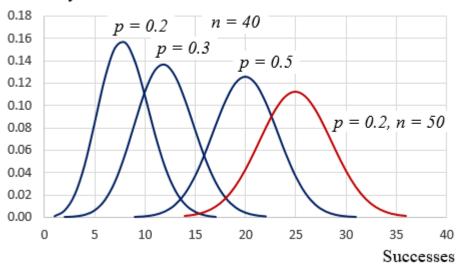


Figure 3.28 Binomial probability distributions

		Probability of successs										
n	Successes	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90		
6	0	0.531	0.262	0.118	0.047	0.016	0.004	0.001	0.000	0.000		
	1	0.354	0.393	0.303	0.187	0.094	0.037	0.010	0.002	0.000		
	2	0.098	0.246	0.324	0.311	0.234	0.138	0.060	0.015	0.001		
	3	0.015	0.082	0.185	0.276	0.313	0.276	0.185	0.082	0.015		
	4	0.001	0.015	0.060	0.138	0.234	0.311	0.324	0.246	0.098		
	5	0.000	0.002	0.010	0.037	0.094	0.187	0.303	0.393	0.354		
	6	0.000	0.000	0.001	0.004	0.016	0.047	0.118	0.262	0.531		
7	0	0.478	0.210	0.082	0.028	0.008	0.002	0.000	0.000	0.000		
	1	0.372	0.367	0.247	0.131	0.055	0.017	0.004	0.000	0.000		
	2	0.124	0.275	0.318	0.261	0.164	0.077	0.025	0.004	0.000		
	3	0.023	0.115	0.227	0.290	0.273	0.194	0.097	0.029	0.003		
	4	0.003	0.029	0.097	0.194	0.273	0.290	0.227	0.115	0.023		
	5	0.000	0.004	0.025	0.077	0.164	0.261	0.318	0.275	0.124		
	6	0.000	0.000	0.004	0.017	0.055	0.131	0.247	0.367	0.372		
	7	0.000	0.000	0.000	0.002	0.008	0.028	0.082	0.210	0.478		
8	0	0.430	0.168	0.058	0.017	0.004	0.001	0.000	0.000	0.000		
	1	0.383	0.336	0.198	0.090	0.031	0.008	0.001	0.000	0.000		
	2	0.149	0.294	0.296	0.209	0.109	0.041	0.010	0.001	0.000		
	3	0.033	0.147	0.254	0.279	0.219	0.124	0.047	0.009	0.000		
	4	0.005	0.046	0.136	0.232	0.273	0.232	0.136	0.046	0.005		
	5	0.000	0.009	0.047	0.124	0.219	0.279	0.254	0.147	0.033		
	6	0.000	0.001	0.010	0.041	0.109	0.209	0.296	0.294	0.149		
	7	0.000	0.000	0.001	0.008	0.031	0.090	0.198	0.336	0.383		
	8	0.000	0.000	0.000	0.001	0.004	0.017	0.058	0.168	0.430		

Figure 3.29 Table of binomial distribution values

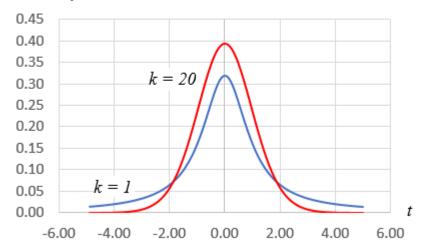


Figure 3.30 t probability distributions

					\boldsymbol{p}			
		0.4	0.3	0.2	0.1	0.05	0.01	0.001
	1	0.325	0.727	1.376	3.078	6.314	31.821	318.309
	2	0.289	0.617	1.061	1.886	2.920	6.965	22.327
	3	0.277	0.584	0.978	1.638	2.353	4.541	10.215
	4	0.271	0.569	0.941	1.533	2.132	3.747	7.173
	5	0.267	0.559	0.920	1.476	2.015	3.365	5.893
	6	0.265	0.553	0.906	1.440	1.943	3.143	5.208
\boldsymbol{k}	7	0.263	0.549	0.896	1.415	1.895	2.998	4.785
	8	0.262	0.546	0.889	1.397	1.860	2.896	4.501
	9	0.261	0.543	0.883	1.383	1.833	2.821	4.297
	10	0.260	0.542	0.879	1.372	1.812	2.764	4.144
	11	0.260	0.540	0.876	1.363	1.796	2.718	4.025
	12	0.259	0.539	0.873	1.356	1.782	2.681	3.930
	13	0.259	0.538	0.870	1.350	1.771	2.650	3.852

Figure 3.31 t statistic probability distribution

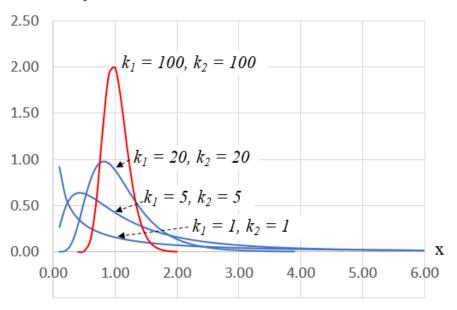


Figure 3.32 F probability distributions

		<i>k1</i>									
	p=0.95	1	2	3	4	5	6	7	8	9	10
	20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348
	21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	2.321
	22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397	2.342	2.297
	23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	2.275
	24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	2.255
k2	25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	2.236
	26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	2.220
	27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	2.204
	28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	2.190
	29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	2.177
	30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165

Figure 3.33 F statistic table

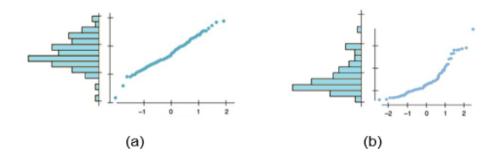


Figure 3.34 Normal plots

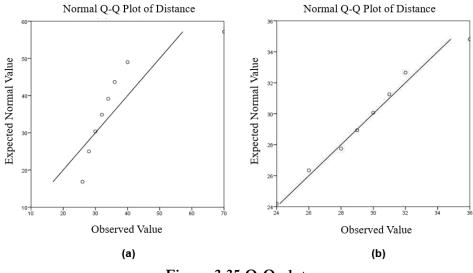


Figure 3.35 Q-Q plots

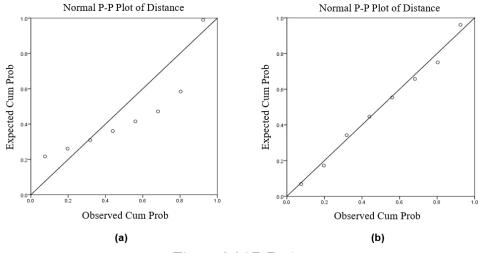
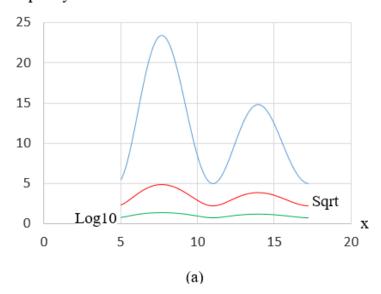


Figure 3.36 P-P plots

Frequency



Frequency

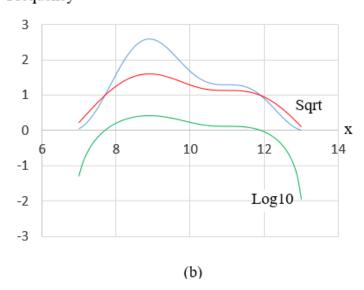


Figure 3.37 Transformation of a bimodal probability distribution

4 Samples

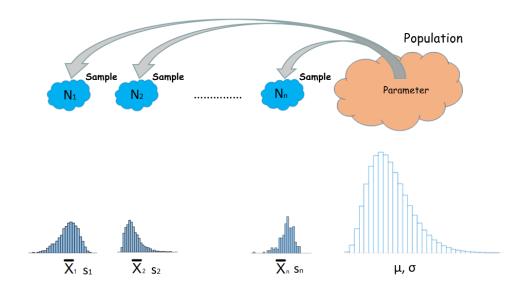


Figure 4.1 Population samples

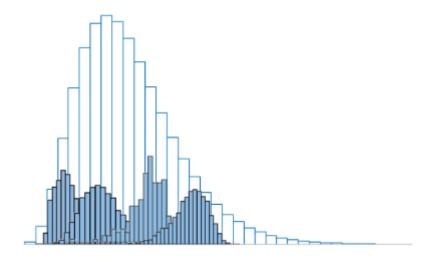


Figure 4.2 Sampling distribution

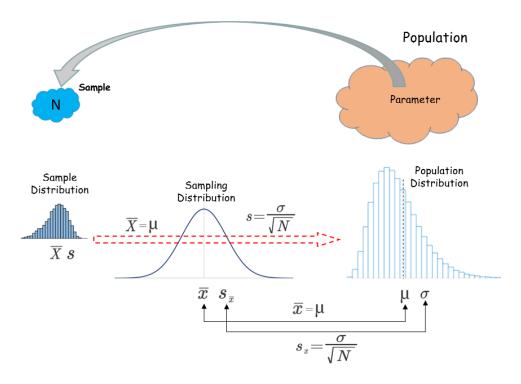


Figure 4.3 Sample, sampling, and population distributions

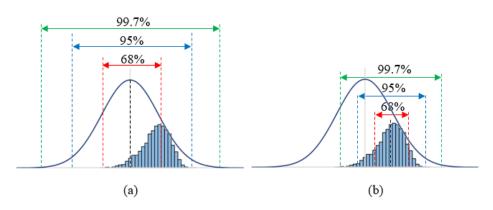


Figure 4.4 Confidence intervals

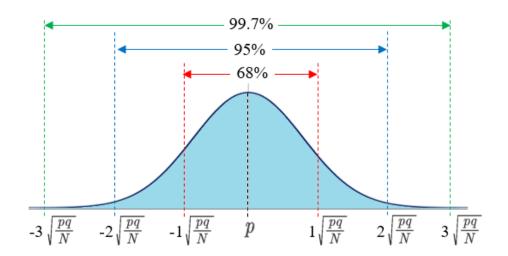


Figure 4.5 Normal model centered at p

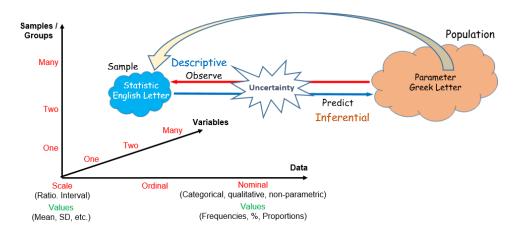


Figure 4.6 The statistics process

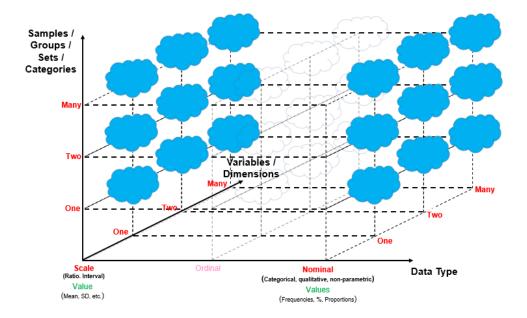


Figure 4.7 Breakdown of statistical methods

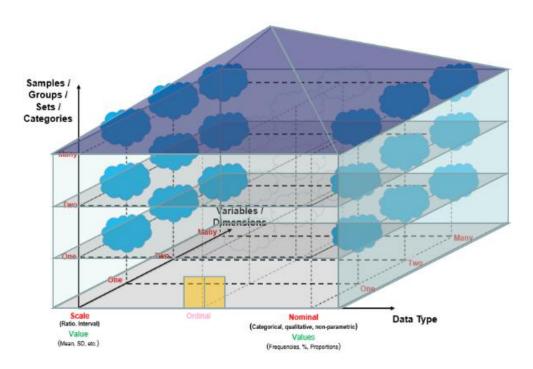


Figure 4.8 The house of stats

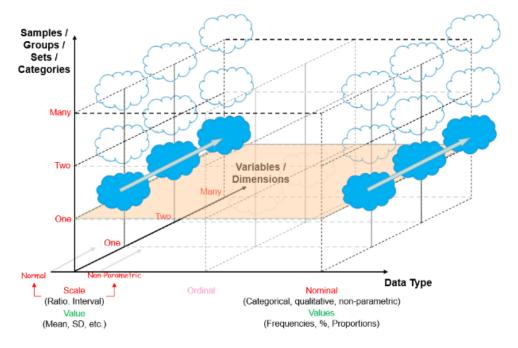


Figure 4.9 One-sample situations

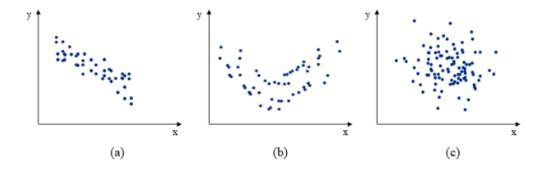


Figure 4.10 Scatter plots of x and y

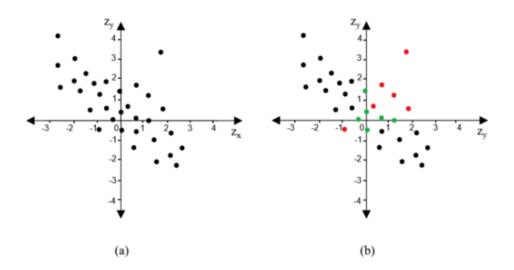


Figure 4.11 Scatter plots of $\mathbf{Z}\mathbf{x}$ and $\mathbf{Z}\mathbf{y}$

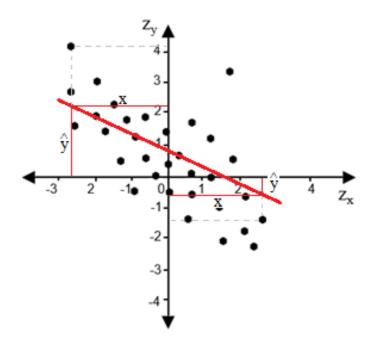


Figure 4.12 Regression to the mean

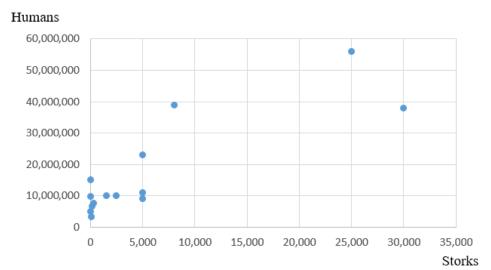


Figure 4.13 Stork example scatter plot

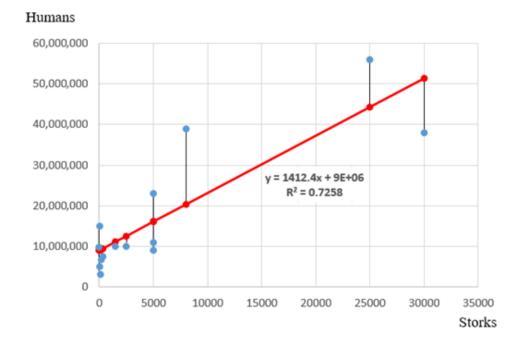


Figure 4.14 Regression line

Humans

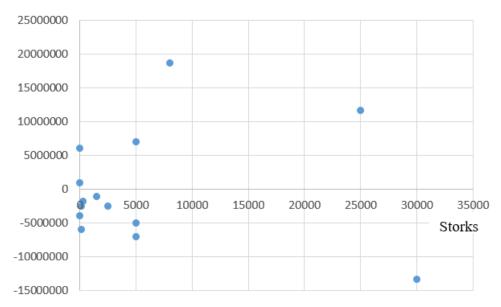


Figure 4.15 Scatter plot of residuals

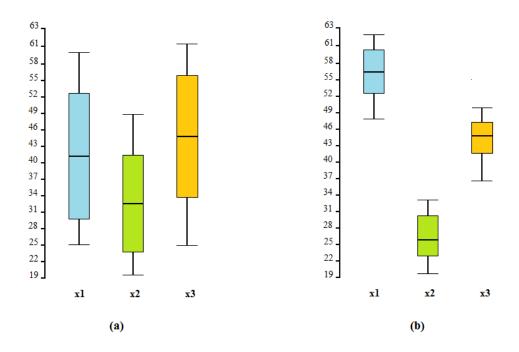


Figure 4.16 Box-plots for ANOVA

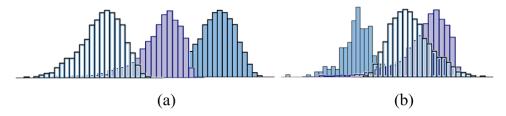


Figure 4.17 Similar and dissimilar distributions

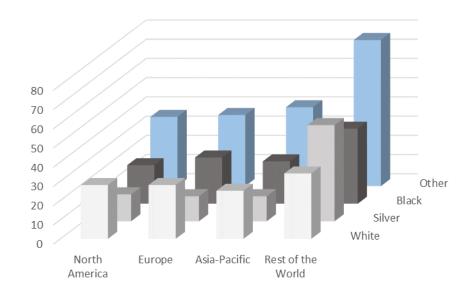


Figure 4.18 Bar chart of contingency table

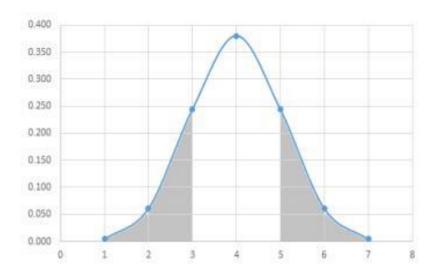


Figure 4.19 Distribution of p values

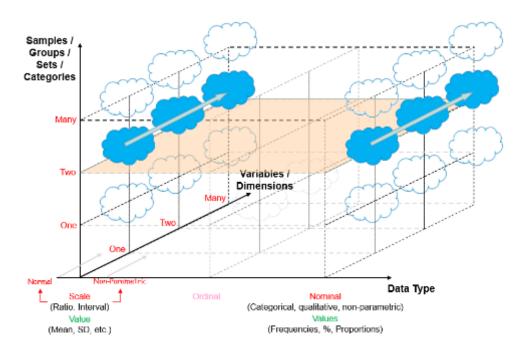


Figure 4.20 Two-sample situation

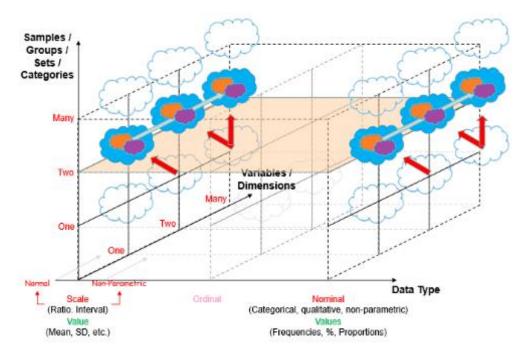


Figure 4.21 From one sample to two

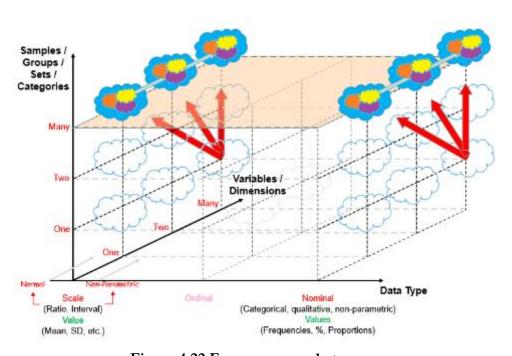


Figure 4.22 From one sample to many

5 Hypothesis Testing

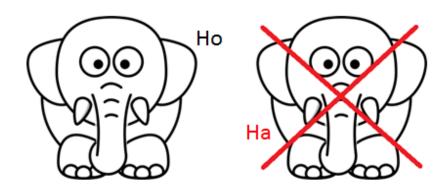


Figure 5.1 Null and alternative hypotheses

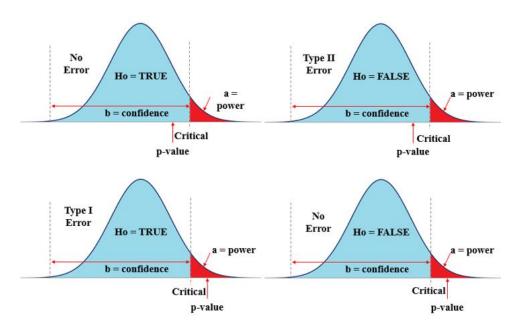


Figure 5.2 Critical and p-value arrangements

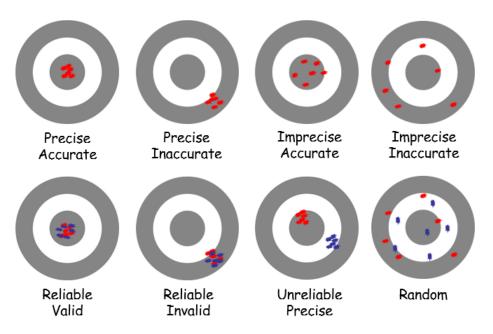


Figure 5.4 Reliability, precisions, validity, and accuracy

6 Advanced Methods of Analysis

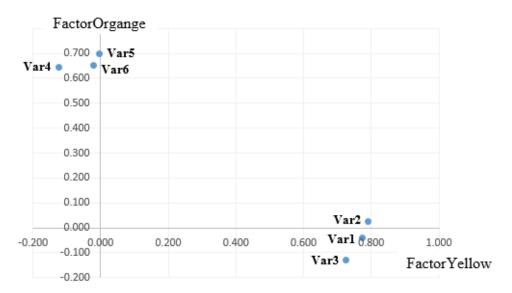


Figure 6.1 Factor coordinates plot

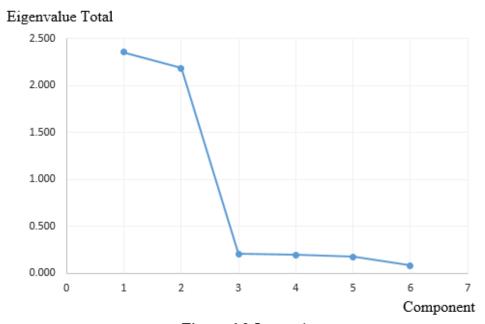


Figure 6.2 Scree plot

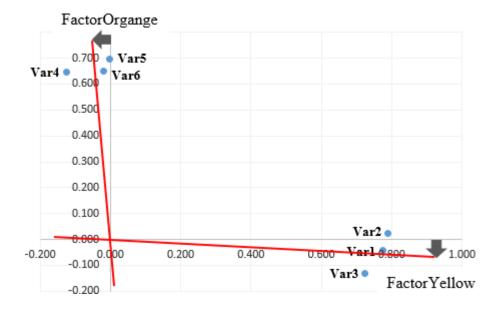


Figure 6.3 Axes rotation

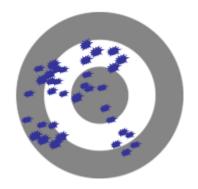


Figure 6.4 Target practice results

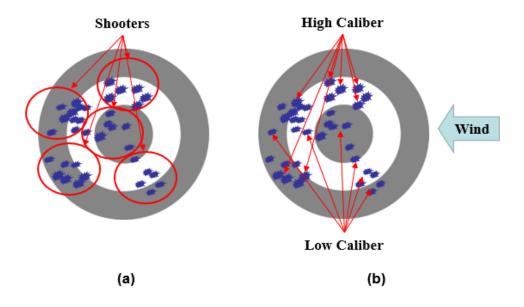


Figure 6.5 Cluster and factor analysis

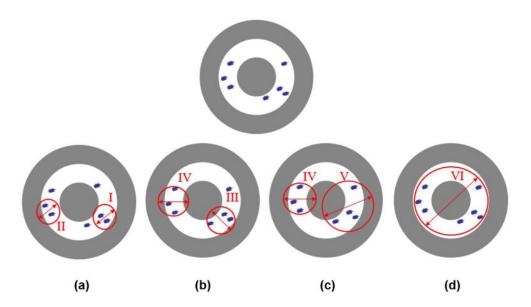


Figure 6.6 The clustering process

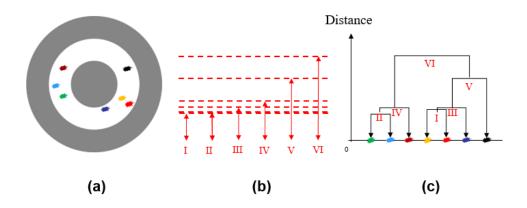


Figure 6.7 Grouping distance and dendogram

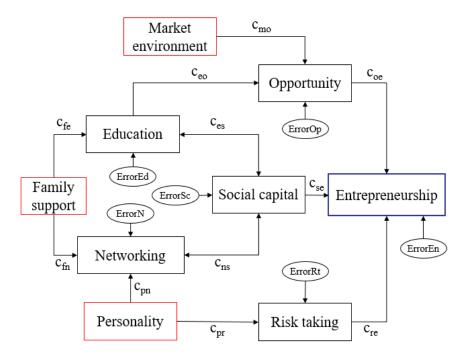


Figure 6.8 Entrepreneurship model

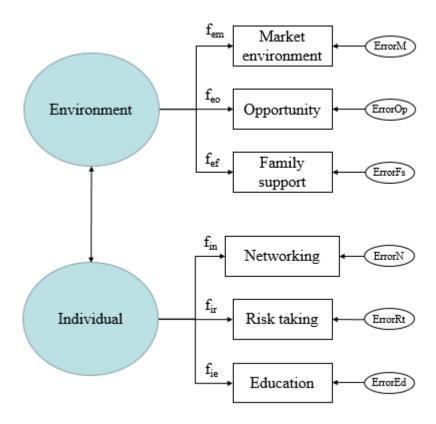


Figure 6.9 Confirmatory factor model examples

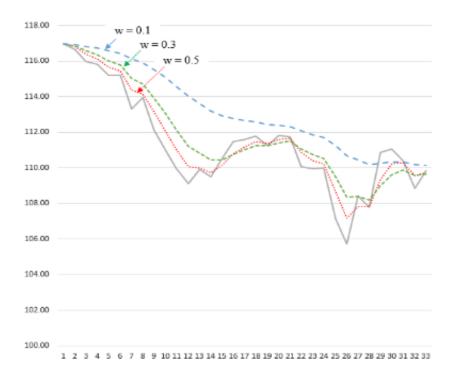


Figure 6.10 Weighted exponential smoothing

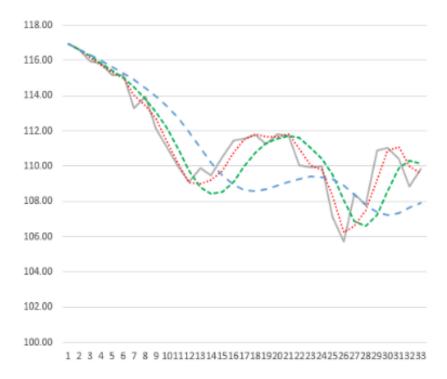


Figure 6.11 Holt model smoothing

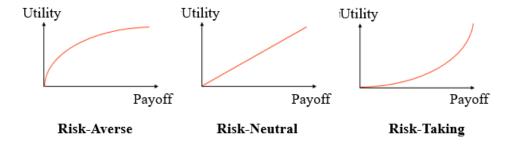


Figure 6.12 Risk attitudes

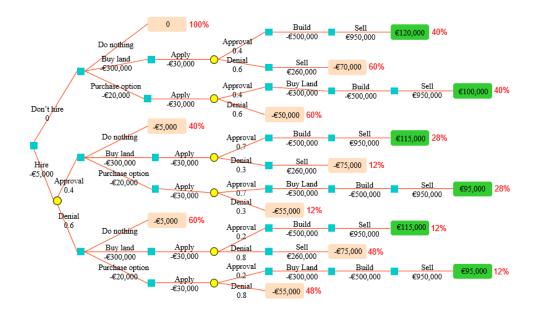


Figure 6.13 Decision tree analysis

7 Publishing Research

Appendix B Cheat Sheets

Table B1. Cheat sheet of statistical tests				
VARIABLES				
Number	Scale (Interval, Ratio)	Nominal/Categorical		
1	Normally Distributed	Chi-square goodness of fit		
	Measures of location, variability (mean,	G-test goodness of fit		
	Var, σ			
	QQ and PP Plots/ KS test			
	Student t-test - independent t-test			
	(hypothetical mean)			
	Distribution Free/Non-parametric			
	Median, Quartiles, box-plot			
	Sign test/Wilcoxon's test			
2	Normally Distributed	Cross-tabulations/Contingency		
	Paired t-test (one sample)	Tables		
	Independence t-test (two samples)	Chi-square test for independence		
	Correlation	G-test for independence (large		
	Regression	entries)		
	Distribution Free/Non-parametric	McNemar's test (paired		
	Wilcoxon's rank/rank sum or Mann-	dichotomous)		
	Whitney	Fisher's exact test (small entries)		
	Spearman's rank			
	Wilcoxon's signed rank (paired)			
Many	Normally Distributed	Chi-square test for independence		
·	One-Way ANOVA	G-test goodness of fit (large		
	Multiple regression	entries)		
	Distribution Free/Non-parametric	Partial and marginal tables		
	Kruskal-Wallis H/One-way ANOVA	Multiple regression (dummy		
	on ranks	variables)		
	Friedman's rank test	Cochran's Q test (dichotomous		
	Logistic regression	Xs)		

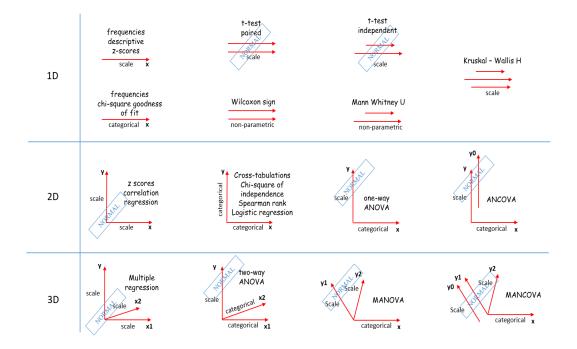


Figure B1. Cheat sheet of statistical methods

Table B2. Cheat sheet of statistical tests in SPSS					
	VARIABLES				
Num	Scale (Interval, Ratio)	Nominal/Categorical			
	Measures of location, variability, etc. SPSS: Analyze => Descriptive Statistics => Frequencies SPSS: Graphs => Chart Builder Box-Plot	SPSS: Bar graphs and pie charts Chi-square goodness of fit SPSS: Analyze => Non			
	Normally Distributed	Parametric => One Sample			
	QQ and PP Plots/KS test SPSS: Analyze > Descriptive > Q-Q Plot SPSS: Analyze > Nonparametric > Legacy > 1	=> Fields => Settings => Chi-square			
	Sample KS (Prove it is not nonparametric) SPSS: Transform => Compute Variable => LG10	G-test goodness of fit			
1	Student t-test - independent t-test SPSS: Analyze > Compare Means > One-Sample T-test				
	Distribution Free/Non-parametric SPSS: Analyze => Nonparametric Tests => Binomial				
	Sign test/Wilcoxon's test Two samples (Independent) Mann Whitney U Test => SPSS: Analyze => Non-parametric => Legacy Dialogs => 2 Independent Samples Two samples (Paired) Wilcoxon Sign Test => SPSS: Analyze => Non-parametric => Legacy Dialogs => 2 Related Samples				

Num Scale (Interval, Ratio) Nominal/Categorical	Table B2. Cheat sheet of statistical tests in SPSS (Cont.)					
Normally Distributed Paired t-test (one sample) One sample (Paired) => SPSS: Analyze > Compare Means > Paired Samples T Test Independence t-test (two samples) Two samples (Independent) => SPSS: Analyze > Constabs Correlation - Regression SPSS: Graphs > Chart Builder > Seatter SPSS: Analyze > Correlate > Bivariate SPSS: Analyze > Regression > Linear >Plot(select Z values) R2 => SPSS: Analyze => Regression => Linear => Save => Understandardized (x axis), Standardized (y axis) = Chart Builder Distribution Free/Non-parametric Wilcoxon's rank/rank sum One sample (Paired) SPSS: Analyze > Related Samples Mann-Witney Spearman's rank						
Paired t-test (one sample) One sample (Paired) => SPSS: Analyze > Compare Means > Paired Samples T Test Independence t-test (two samples) Two samples (Independent) => SPSS: Analyze > Compare Means > Independent Samples T Test Correlation - Regression SPSS: Graphs > Chart Builder > Scatter SPSS: Analyze > Correlate > Bivariate SPSS: Analyze > Regression > Linear >Plot(select Z values) R2 => SPSS: Analyze => Regression => Linear => Save => Understandardized (x axis), Standardized (y axis) = Chart Builder Distribution Free/Non-parametric Wilcoxon's rank/rank sum One sample (Paired) SPSS: Analyze > Nonparametric Tests > Legacy Dialogs > 2 Related Samples Mann-Witney Spearman's rank	Num	Scale (Interval, Ratio)	Nominal/Categorical			
Spearman (uncheck Pearson)		Normally Distributed Paired t-test (one sample) One sample (Paired) => SPSS: Analyze > Compare Means > Paired Samples T Test Independence t-test (two samples)	One sample Cross- tabulations/Contingency tables SPSS: Analyze => Descriptive Statistics => Crosstabs Chi-square test for independence Two or Many Samples Chi-square test for homogeneity			

Table B2. Cheat sheet of statistical tests in SPSS					
	VARIABLES				
Num	Scale (Interval, Ratio)	Nominal/Categorical			
	Normally Distributed	McNemar's test			
	One-Way ANOVA	(dichotomous)			
	SPSS: Analyze > Compare Means > One	Fisher's exact test ($N \le 5$)			
	way ANOVA or Analyze > Compare	SPSS: Analyze => Descriptive			
	Means > Means => Option => check	Statistics => Crosstabs =>			
	ANOVA Tables	Exact => Asymptotic			
	SPSS: Analyze > Compare Means > One				
	way ANOVA	Multiple regression Cochran's			
	-	Q test			
	Multiple regression				
	SPSS: Analyze > Regression > Linear				
	>one dependent, many independent				
Many					
	Distribution Free/Non-parametric				
	Kruskal-Wallis H/One-way ANOVA on				
	ranks				
	Friedman's rank test				
	SPSS: Analyze => Nonparametric =>				
	Related Samples => follow up with Graph				
	Builder => Boxplots				
	Logistic regression				
	SPSS: Analyze > Regression > Linear				
	>one dependent, many independent				