

10 Questions

Key - PLEASE CHECK KEY BEFORE POSTING RESULTS!!!

k1	k2	k3	k4	k5	k6	k7	k8	k9	k10
1	2	3	4	5	1	2	3	4	5

10 Questions

## Grade Report

id	id6	id4	name	seq	Score	#Missing	#Invalid	Percent
000-00-0001	00-0001	0001	AAA, A A.	1	8	0	0	80%
000-00-0002	00-0002	0002	BBB, B B.	2	10	0	0	100%
000-00-0003	00-0003	0003	CCC, C C.	3	9	1	0	90%
000-00-0004	00-0004	0004	DDD, D D.	4	9	0	1	90%
000-00-0005	00-0005	0005	EEE, E E.	5	8	0	0	80%
000-00-0006	00-0006	0006	FFF, F F.	6	7	1	1	70%
000-00-0007	00-0007	0007	GGG, G G.	7	10	0	0	100%
000-00-0008	00-0008	0008	HHH, H H.	8	10	0	0	100%
000-00-0009	00-0009	0009	III, I I.	9	7	0	0	70%
000-00-0010	00-0010	0010	JJJ, J J.	10	10	0	0	100%
000-00-0011	00-0011	0011	KK, K K.	11	9	0	0	90%
000-00-0012	00-0012	0012	LLL, L L.	12	4	0	0	40%

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## Summary of Test Statistics

Number of Items	10
Number of Subjects	12
Mean Score	8.417
Variance of Scores	3.174
Standard Deviation	1.782
Kuder-Richardson 20	0.621
Kuder-Richardson 21	0.602
Standard Error (from KR20)	1.098
Standard Error (from KR21)	1.124
Minimum Score	4
Maximum Score	10
Total Number of Answers	120
Number Missing	2
Number Invalid	2

Spearman-Brown Prophecy (from KR21):  
To obtain a reliability of 0.75  
the test should contain 20 items

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## Test Frequency Distribution

Raw Score	Standard Score	Per-Centile	Percent	Freq	Cum Freq	Each X represents 1 score
10	589	83	33.3%	4	12	XXXX
9	533	54	25.0%	3	8	XXX
8	477	33	16.7%	2	5	XX
7	420	16	16.7%	2	3	XX
6	364	8	0.0%	0	1	
5	308	8	0.0%	0	1	
4	252	4	8.3%	1	1	X

## 10 Questions

Item q1	1: * is keyed	1*	2	3	4	5	Omit	Invalid
	Responses	91.7%	0.0%	0.0%	0.0%	0.0%	8.3%	0.0%
	Upper 27%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lower 27%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Item-Total:								
	Point Bis	-0.103	0.000	0.000	0.000	0.000		
	Biserial	-0.186	0.000	0.000	0.000	0.000		
Item-Remainder:								
	Point Bis	-0.258	0.000	0.000	0.000	0.000		
	Biserial	-0.464	0.000	0.000	0.000	0.000		
	t test	-0.843	0.000	0.000	0.000	0.000		
	Prob> t	0.4190	1.0000	1.0000	1.0000	1.0000		
Item q2	2: * is keyed	1	2*	3	4	5	Omit	Invalid
	Responses	16.7%	83.3%	0.0%	0.0%	0.0%	0.0%	0.0%
	Upper 27%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lower 27%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Item-Total:								
	Point Bis	-0.109	0.109	0.000	0.000	0.000		
	Biserial	-0.163	0.163	0.000	0.000	0.000		
Item-Remainder:								
	Point Bis	0.109	-0.109	0.000	0.000	0.000		
	Biserial	0.163	-0.163	0.000	0.000	0.000		
	t test	0.348	-0.348	0.000	0.000	0.000		
	Prob> t	0.7354	0.7354	1.0000	1.0000	1.0000		
Item q3	3: * is keyed	1	2	3*	4	5	Omit	Invalid
	Responses	8.3%	0.0%	91.7%	0.0%	0.0%	0.0%	0.0%
	Upper 27%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
	Lower 27%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
Item-Total:								
	Point Bis	-0.074	0.000	0.074	0.000	0.000		
	Biserial	-0.133	0.000	0.133	0.000	0.000		
Item-Remainder:								
	Point Bis	0.088	0.000	-0.088	0.000	0.000		
	Biserial	0.159	0.000	-0.159	0.000	0.000		
	t test	0.280	0.000	-0.280	0.000	0.000		
	Prob> t	0.7850	1.0000	0.7850	1.0000	1.0000		

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Item	4: * is keyed	1	2	3	4*	5	Omit	Invalid
q4	Responses	0.0%	0.0%	0.0%	91.7%	8.3%	0.0%	0.0%
	Upper 27%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	Lower 27%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	0.0%
	Item-Total:							
	Point Bis	0.000	0.000	0.000	0.781	-0.781		
	Biserial	0.000	0.000	0.000	1.407	-1.407		
	Item-Remainder:							
	Point Bis	0.000	0.000	0.000	0.704	-0.704		
	Biserial	0.000	0.000	0.000	1.268	-1.268		
	t test	0.000	0.000	0.000	3.130	-3.130		
	Prob> t	1.0000	1.0000	1.0000	0.0107	0.0107		
Item	5: * is keyed	1	2	3	4	5*	Omit	Invalid
q5	Responses	0.0%	0.0%	0.0%	8.3%	91.7%	0.0%	0.0%
	Upper 27%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
	Lower 27%	0.0%	0.0%	0.0%	33.3%	66.7%	0.0%	0.0%
	Item-Total:							
	Point Bis	0.000	0.000	0.000	-0.781	0.781		
	Biserial	0.000	0.000	0.000	-1.407	1.407		
	Item-Remainder:							
	Point Bis	0.000	0.000	0.000	-0.704	0.704		
	Biserial	0.000	0.000	0.000	-1.268	1.268		
	t test	0.000	0.000	0.000	-3.130	3.130		
	Prob> t	1.0000	1.0000	1.0000	0.0107	0.0107		
Item	6: * is keyed	1*	2	3	4	5	Omit	Invalid
q6	Responses	83.3%	8.3%	0.0%	0.0%	0.0%	0.0%	8.3%
	Upper 27%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lower 27%	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
	Item-Total:							
	Point Bis	0.502	-0.781	0.000	0.000	0.000		
	Biserial	0.750	-1.407	0.000	0.000	0.000		
	Item-Remainder:							
	Point Bis	0.312	-0.696	0.000	0.000	0.000		
	Biserial	0.466	-1.255	0.000	0.000	0.000		
	t test	1.039	-3.065	0.000	0.000	0.000		
	Prob> t	0.3233	0.0119	1.0000	1.0000	1.0000		

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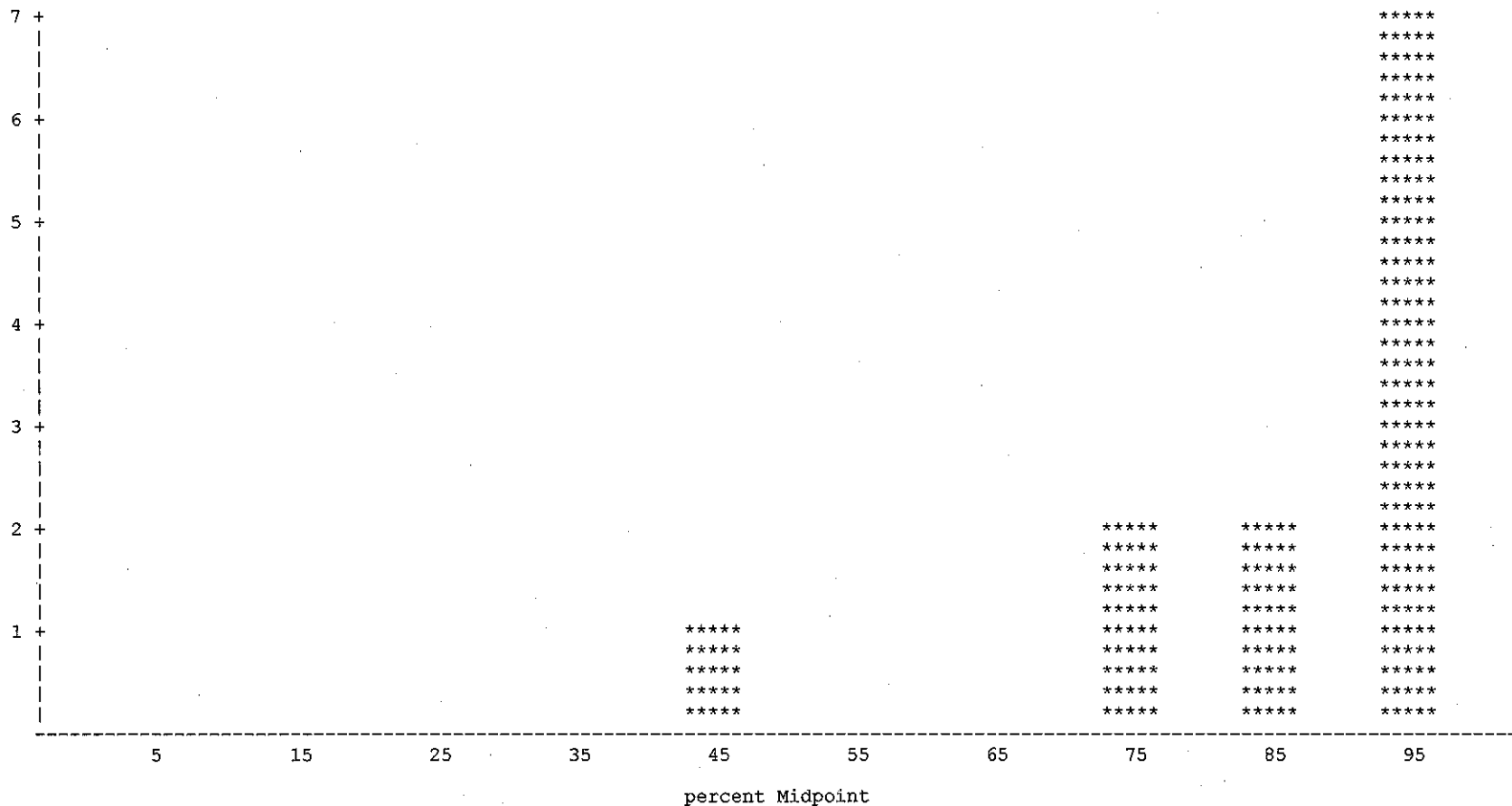
Item	7: * is keyed	1	2*	3	4	5	Omit	Invalid
q7	Responses	25.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Upper 27%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lower 27%	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%
	Item-Total:							
	Point Bis	-0.479	0.479	0.000	0.000	0.000		
	Biserial	-0.653	0.653	0.000	0.000	0.000		
	Item-Remainder:							
	Point Bis	-0.249	0.249	0.000	0.000	0.000		
	Biserial	-0.339	0.339	0.000	0.000	0.000		
	t test	-0.813	0.813	0.000	0.000	0.000		
	Prob> t	0.4351	0.4351	1.0000	1.0000	1.0000		
Item	8: * is keyed	1	2	3*	4	5	Omit	Invalid
q8	Responses	0.0%	8.3%	75.0%	8.3%	0.0%	8.3%	0.0%
	Upper 27%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
	Lower 27%	0.0%	33.3%	0.0%	33.3%	0.0%	33.3%	0.0%
	Item-Total:							
	Point Bis	0.000	-0.250	0.818	-0.781	0.000		
	Biserial	0.000	-0.451	1.115	-1.407	0.000		
	Item-Remainder:							
	Point Bis	0.000	-0.146	0.700	-0.804	0.000		
	Biserial	0.000	-0.264	0.954	-1.450	0.000		
	t test	0.000	-0.468	3.101	-4.282	0.000		
	Prob> t	1.0000	0.6501	0.0112	0.0016	1.0000		
Item	9: * is keyed	1	2	3	4*	5	Omit	Invalid
q9	Responses	0.0%	8.3%	16.7%	75.0%	0.0%	0.0%	0.0%
	Upper 27%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	Lower 27%	0.0%	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%
	Item-Total:							
	Point Bis	0.000	-0.250	-0.765	0.818	0.000		
	Biserial	0.000	-0.451	-1.141	1.115	0.000		
	Item-Remainder:							
	Point Bis	0.000	-0.146	-0.705	0.700	0.000		
	Biserial	0.000	-0.264	-1.052	0.954	0.000		
	t test	0.000	-0.468	-3.144	3.101	0.000		
	Prob> t	1.0000	0.6501	0.0104	0.0112	1.0000		

## 10 Questions

Item	10: * is keyed	1	2	3	4	5*	Omit	Invalid
q10	Responses	0.0%	8.3%	0.0%	0.0%	83.3%	0.0%	8.3%
	Upper 27%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
	Lower 27%	0.0%	33.3%	0.0%	0.0%	33.3%	0.0%	33.3%
	Item-Total:							
	Point Bis	0.000	-0.250	0.000	0.000	0.371		
	Biserial	0.000	-0.451	0.000	0.000	0.554		
	Item-Remainder:							
	Point Bis	0.000	-0.110	0.000	0.000	0.163		
	Biserial	0.000	-0.198	0.000	0.000	0.242		
	t test	0.000	-0.349	0.000	0.000	0.521		
	Prob> t	1.0000	0.7346	1.0000	1.0000	0.6138		

10 Questions

Frequency



10 Questions

The UNIVARIATE Procedure  
Variable: percent

## Moments

N	12	Sum Weights	12
Mean	84.166667	Sum Observations	1010
Std Deviation	17.8164037	Variance	317.424242
Skewness	-1.4566502	Kurtosis	2.44314398
Uncorrected SS	88500	Corrected SS	3491.66667
Coeff Variation	21.1680045	Std Error Mean	5.14315275

## Basic Statistical Measures

Location		Variability	
Mean	84.1667	Std Deviation	17.81640
Median	90.0000	Variance	317.42424
Mode	100.0000	Range	60.00000
		Interquartile Range	25.00000

## Tests for Location: Mu0=0

Test	-Statistic-	-----p Value-----	
Student's t	t 16.3648	Pr >  t	<.0001
Sign	M 6	Pr >=  M	0.0005
Signed Rank	S 39	Pr >=  S	0.0005

## Tests for Normality

Test	--Statistic--	-----p Value-----	
Shapiro-Wilk	W 0.833923	Pr < W	0.0234
Kolmogorov-Smirnov	D 0.211656	Pr > D	0.1409
Cramer-von Mises	W-Sq 0.103283	Pr > W-Sq	0.0918
Anderson-Darling	A-Sq 0.701471	Pr > A-Sq	0.0491

## Quantiles (Definition 5)

Quantile	Estimate
100% Max	100
99%	100
95%	100
90%	100
75% Q3	100
50% Median	90
25% Q1	75
10%	70
5%	40
1%	40
0% Min	40

10 Questions

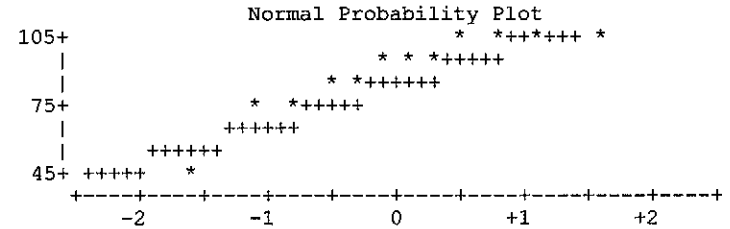
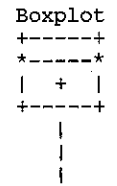
The UNIVARIATE Procedure  
Variable: percent

Extreme Observations

-----Lowest-----			-----Highest-----		
Value	name	Obs	Value	name	Obs
40	LLL, L L.	12	90	KK, K K.	11
70	III, I I.	9	100	BBB, B B.	2
70	FFF, F F.	6	100	GGG, G G.	7
80	EEE, E E.	5	100	HHH, H H.	8
80	AAA, A A.	1	100	JJJ, J J.	10

Stem Leaf	#
10 0000	4
9 000	3
8 00	2
7 00	2
6	
5	
4 0	1

-----+-----  
Multiply Stem.Leaf by 10\*\*+1



10 Questions

	Seq	1		
AAA, A A.			num	12345 67890
000-00-0001				-----
raw score =	8	ans	11345	11345
pct score =	80%	key	2	2

10 Questions

Seq 2

BBB, B B.		num	12345	67890	1
000-00-0002			-----	-----	
raw score = 10	ans		12345	12345	
pct score = 100%	key				

10 Questions

	Seq	3		
CCC, C C.			num	12345 67890 <sup>1</sup>
				-----
			raw score =	9 ans 2345 12345
			pct score =	90% key 1

10 Questions

Seq 4

DDD, D D.		num	12345	67890	1
000-00-0004			-----	-----	
raw score =	9	ans	12345	*2345	
pct score =	90%	key		1	

10 Questions

Seq 5

EEE, E E.		num	12345	67890	1
000-00-0005			-----	-----	
raw score =	8	ans	11145	12345	
pct score =	80%	key	23		

10 Questions

Seq 6

FFF, F F.		num	12345	67890	1
000-00-0006			-----	-----	
raw score =	7	ans	12345	12 3*	
pct score =	70%	key		345	

10 Questions

Seq 7

GGG, G G.		num	12345 67890	1
000-00-0007			-----	-----
raw score = 10	ans	12345	12345	
pct score = 100%	key			

10 Questions

Seq 8

HHH, H H.		num	12345	67890	1
000-00-0008			-----	-----	
raw score = 10	ans		12345	12345	
pct score = 100%	key				

10 Questions

Seq 9

III, I I.				1
	num	12345	67890	
000-00-0009		-----	-----	
raw score =	7	ans	12345	12222
pct score =	70%	key		345

10 Questions

Seq 10

JJJ, J J.		num	12345	67890	1
000-00-0010			-----	-----	
raw score = 10	ans	12345	12345		
pct score = 100%	key				

10 Questions

Seq 11

KK, K K.		num	12345	67890	1
000-00-0011			-----	-----	
raw score =	9	ans	12345	11345	
pct score =	90%	key		2	

10 Questions

Seq 12

LLL, L L.		num	12345	67890	1
000-00-0012			-----	-----	
raw score =	4	ans	12354	21435	
pct score =	40%	key	45	1234	

## 10 Questions

Obs	Name	ID Number	Correct	Percent	% Rank	T Score	Name
1	AAA, A A.	000-00-0001	8	80%	34	47.66	AAA, A A.
2	BBB, B B.	000-00-0002	10	100%	80	58.89	BBB, B B.
3	CCC, C C.	000-00-0003	9	90%	53	53.27	CCC, C C.
4	DDD, D D.	000-00-0004	9	90%	53	53.27	DDD, D D.
5	EEE, E E.	000-00-0005	8	80%	34	47.66	EEE, E E.
6	FFF, F F.	000-00-0006	7	70%	19	42.05	FFF, F F.
7	GGG, G G.	000-00-0007	10	100%	80	58.89	GGG, G G.
8	HHH, H H.	000-00-0008	10	100%	80	58.89	HHH, H H.
9	III, I I.	000-00-0009	7	70%	19	42.05	III, I I.
10	JJJ, J J.	000-00-0010	10	100%	80	58.89	JJJ, J J.
11	KK, K K.	000-00-0011	9	90%	53	53.27	KK, K K.
12	LLL, L L.	000-00-0012	4	40%	7	25.21	LLL, L L.

10 Questions

Sorted by 9-digit ID Number

ID Number	Correct	Percent	Blank	Invalid	ID Number	Correct	Percent	Blank	Invalid	ID Number	Correct	Percent	Blank	Invalid
000-00-0001	8	80%			000-00-0002	10	100%			000-00-0003	9	90%	1	
000-00-0004	9	90%		1	000-00-0005	8	80%			000-00-0006	7	70%	1	1
000-00-0007	10	100%			000-00-0008	10	100%			000-00-0009	7	70%		
000-00-0010	10	100%			000-00-0011	9	90%			000-00-0012	4	40%		

## 10 Questions

Sorted by 6-digit ID Number

ID Number	Correct	Percent	Blank	Invalid	ID Number	Correct	Percent	Blank	Invalid	ID Number	Correct	Percent	Blank	Invalid
00-0001	8	80%			00-0002	10	100%			00-0003	9	90%	1	
00-0004	9	90%		1	00-0005	8	80%			00-0006	7	70%	1	1
00-0007	10	100%			00-0008	10	100%			00-0009	7	70%		
00-0010	10	100%			00-0011	9	90%			00-0012	4	40%		

10 Questions

Sorted by 4-digit ID Number

ID Number	Correct	Percent	Blank	Invalid	ID Number	Correct	Percent	Blank	Invalid	ID Number	Correct	Percent	Blank	Invalid
0001	8	80%			0002	10	100%			0003	9	90%	1	
0004	9	90%		1	0005	8	80%			0006	7	70%	1	1
0007	10	100%			0008	10	100%			0009	7	70%		
0010	10	100%			0011	9	90%			0012	4	40%		