

JOB NUMBER: A0085 (RERUN OF A0113)
INSTRUCTOR: THISISA SAMPLE
DEPARTMENT: MARC (99901)
DESCRIPTION: SAMPLE STANDARD IAP

MEASUREMENT AND RESEARCH CENTER
TEMPLE UNIVERSITY
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THE FOLLOWING IS PROVIDED TO AID IN THE INTERPRETATION OF THE OUTPUT.

** TEST SCORE DISTRIBUTION **

"RAW SCORE" IS THE TOTAL NUMBER OF (NON-OMITTED) ITEMS A STUDENT ANSWERED CORRECTLY.
"WTD SCORE" (WEIGHTED SCORE) IS THE SUM OF THE WEIGHTS ASSIGNED TO EACH (NON-OMITTED) ITEM THE STUDENT ANSWERED CORRECTLY.
FOR TEST THAT HAVE NO WEIGHTED ITEMS, THE WEIGHTED SCORE IS THE SAME AS THE RAW SCORE.
"FREQUENCY" IS THE NUMBER OF STUDENTS WHO OBTAINED THE CORRESPONDING RAW OR WEIGHTED SCORE.
"CUMULATIVE FREQUENCY" IS TOTAL NUMBER OF STUDENTS WHO RECEIVED A SCORE AT OR BELOW THE CORRESPONDING RAW OR WEIGHTED SCORE.
"PERCENTILE RANK" IS THE PERCENTAGE OF STUDENTS WHO RECEIVED A SCORE AT OR BELOW THE CORRESPONDING RAW OR WEIGHTED SCORE.
"STANDARD SCORE" IS THE RAW OR WEIGHTED SCORE CONVERTED TO A Z SCORE. THE Z SCORES THAT MARC CALCULATES HAVE BEEN TRANSFORMED SO THAT THE STANDARD SCORE DISTRIBUTION HAS A MEAN OF 50 AND STANDARD DEVIATION OF 10.

** SUMMARY STATISTICS **

"MEAN" IS THE AVERAGE OF ALL SCORES.
"MEDIAN" IS THE POINT BELOW WHICH AND ABOVE WHICH FIFTY PERCENT OF THE SCORES LIE.
"MODE" IS THE MOST FREQUENTLY OCCURRING SCORE. NO MODE WILL BE CALCULATED IF MORE THAN ONE SCORE OCCURS MOST FREQUENTLY.
"STANDARD DEVIATION" DESCRIBES THE VARIABILITY OF THE TEST SCORES.
"MAXIMUM" AND "MINIMUM" ARE THE HIGHEST AND LOWEST OBTAINED SCORES, RESPECTIVELY.

** ITEM ANALYSIS **

"ITEM MSG" CONTAINS A MESSAGE IF THE PERCENTAGE OF STUDENTS ANSWERING CORRECTLY IS LESS THAN 25% OR LESS THAN 10%, OR IF THE ITEM IS AN "OMIT" OR A "MULT" ON THE ANSWER KEY.
"PT BISER" (POINT-BISERIAL) DESCRIBES THE CORRELATION BETWEEN STUDENT SUCCESS ON THE ITEM AND STUDENT SUCCESS ON THE TEST. GENERALLY, THE CLOSER THE VALUE IS TO POSITIVE ONE, THE BETTER THE ITEM. ITEMS WITH VALUES CLOSE TO 0, AND ESPECIALLY NEGATIVE VALUES, MAY BE ITEMS THAT ARE POORLY WRITTEN OR ARE OTHERWISE POOR MEASURES OF STUDENT LEARNING.
"PHI COEFF" (PHI COEFFICIENT) DESCRIBES THE RELATIONSHIP BETWEEN THE ITEM AND THE UPPER/LOWER GROUPS, WHERE GROUPS ARE DEFINED AS THE TOP 27.5 PERCENT OF THE SCORES (UPPER) AND THE LOWEST 27.5 PERCENT OF THE SCORES (LOWER).
"SIG" IS THE SIGNIFICANCE OF THE ITEM-GROUP RELATIONSHIP (PHI), AND IS THE PROBABILITY OF OBTAINING THE OBSERVED PHI VALUE BY CHANCE ALONE.
"A B C D E" REFER TO RESPONSE OPTIONS. THE STARRED ("**") OPTION IS THE CORRECT RESPONSE AS GRIDDED ON THE SCORING KEY. THE NUMBER UNDER EACH OPTION IS THE TOTAL NUMBER OF STUDENTS MAKING THAT RESPONSE.
"BLNK" IS THE PERCENTAGE OF STUDENTS WHO DID NOT ANSWER THE ITEM (OR GAVE MULTIPLE ANSWERS). "ERR" IS THE PERCENTAGE OF INVALID RESPONSES (IF NOT ZERO, THE DATA MUST BE CLOSELY EXAMINED TO DETERMINE THE CAUSE OF THE ERROR).

** SUMMARY STATISTICS **

"KR 20" IS A MEASURE OF THE INTERNAL CONSISTENCY OF THE TEST AND IS A FUNCTION OF THE NUMBER OF ITEMS ON THE TEST, THE VARIABILITY OF THE SCORES, AND THE PROPORTION OF CORRECT AND INCORRECT RESPONSES FOR EACH ITEM.
"STANDARD ERROR OF MEASUREMENT" IS A FUNCTION OF THE TEST'S STANDARD DEVIATION AND RELIABILITY (AS MEASURED BY KR 20). IT INDICATES THE MAGNITUDE OF ERROR IN EACH TEST SCORE IN TERMS OF TEST POINTS.

** STUDENT LISTINGS **

"SUBJECT IDENTIFICATION" CONTAINS THE STUDENT ID REQUESTED.
"NUM" IS THE SEQUENCE NUMBER PRINTED ON THE ANSWER SHEET AS IT WAS SCANNED.
"SCORE" IS THE TEST SCORE (WEIGHTED TEST SCORE WHEN WEIGHTS ARE SPECIFIED).
"PCTL" IS THE PERCENTILE RANK OF THE CORRESPONDING SCORE.
"STD" IS THE STANDARD SCORE CORRESPONDING TO THE TEST SCORE.
"PCTC" IS THE PERCENTAGE OF ITEMS ANSWERED CORRECTLY (EITHER "STD" OR "PCTC" WILL BE REPORTED).
"RAW" IS THE NUMBER OF ITEMS ANSWERED CORRECTLY (AND IS INCLUDED WHEN THE TEST SCORE IS WEIGHTED).

THE FORMAT OF THIS REPORT WAS MODELED ON A REPORT DEVELOPED BY AND BELONGING TO DR. DAVID D. S. POOR.

DESCRIPTION OF TEST AND PROCESSING OPTIONS

TEST DESCRIPTION

FORM: BLUE CLASSROOM EXAM (5 RESPONSE OPTIONS)

NUMBER OF ITEMS ON TEST = 50
NUMBER OF STUDENTS = 30

UPPER GROUP CUTOFF FOR PHI ADJUSTED TO EQUALIZE N'S:
UPPER GROUP RAW SCORES >= 33
LOWER GROUP RAW SCORES <= 24

OUTPUT OPTIONS

REPORT TYPE: STANDARD
STUDENT SCORE LISTINGS: -ALPHA -SCORE -Tuid

PROCESSING OPTIONS

ITEMS WITH MULTIPLE RESPONSES
41: ANY NON-BLANK ANSWER
42: CD
45: ABC
47: BC

OMITTED ITEMS
29 - 30: OMIT

WEIGHTED ITEMS
1 - 50: 2 PTS.

TEST SCORE DISTRIBUTION

ALL ITEMS, WEIGHTED SCORE

WTD SCORE	FREQUENCY	CUMULATIVE FREQUENCY	PERCENTILE RANK	STANDARD SCORE
96	1	30	100.0	77.6
78	1	29	96.7	64.3
76	3	28	93.3	62.8
74	1	25	83.3	61.4
72	2	24	80.0	59.9
64	1	22	73.3	54.0
62	2	21	70.0	52.5
60	2	19	63.3	51.0
58	1	17	56.7	49.6
56	2	16	53.3	48.1
54	3	14	46.7	46.6
50	2	11	36.7	43.7
48	3	9	30.0	42.2
46	1	6	20.0	40.7
44	1	5	16.7	39.2
42	2	4	13.3	37.8
40	2	2	6.7	36.3

SUMMARY STATISTICS

MEAN	58.60
MEDIAN	56
MODE	NONE
STANDARD DEVIATION	13.56
MAXIMUM	96
MINIMUM	40

TEST SCORE HISTOGRAM

HISTOGRAM 'X' AXIS SCALE: 100%

ALL ITEMS, WEIGHTED SCORE



ITEM MSG	ITEM NUM	PT BISER	PHI COEFF	SIG	PERCENT RESPONSES						
					A	B	C	D	E	BLNK	ERR
	1	.216	.245	.20	73**	17	7	3	0	0	0
	2	.207	.127	N.S.	23	63**	13	0	0	0	0
	3	.386	.450	.02	20	53**	27	0	0	0	0
	4	.624	.889	.001	3	57**	30	7	0	3	0
	5	.171	.091	N.S.	0	17	73**	0	7	3	0
	6	.222	.127	N.S.	0	20	77**	3	0	0	0
	7	.251	.292	.20	10	37	50**	0	3	0	0
	8	.201	.056	N.S.	47	37**	7	7	3	0	0
	9	.375	.408	.05	40**	17	43	0	0	0	0
	10	.308	.310	.10	3	3	53**	37	0	3	0
	11	.199	.181	N.S.	0	3	10	53**	30	3	0
	12	.421	.648	.001	3	7	7	20	63**	0	0
	13	.575	.887	.001	3	10	23	57**	3	3	0
	14	.511	.789	.001	10	23	67**	0	0	0	0
	15	.501	.653	.001	20	67**	10	0	3	0	0
	16	.319	.417	.05	63**	30	3	0	3	0	0
	17	.241	.310	.10	7	50**	43	0	0	0	0
	18	.367	.537	.01	10	23	53**	13	0	0	0
	19	.350	.528	.01	3	7	17	63**	7	3	0
	20	.401	.450	.02	3	7	13	63**	7	7	0
	21	.501	.609	.001	3	0	7	13	70**	7	0
	22	.168	.203	N.S.	3	7	17	70**	0	3	0
	23	.269	.310	.10	7	17	77**	0	0	0	0
	24	.054	.070	N.S.	13	63**	17	0	7	0	0
	25	.467	.648	.001	13	30	13	0	43**	0	0

ITEM MSG	ITEM NUM	PT BISER	PHI COEFF	SIG	PERCENT RESPONSES						
					A	B	C	D	E	BLNK	ERR
	26	.047	-.033	N.S.	13	47**	37	3	0	0	0
	27	.406	.450	.02	0	30	53**	17	0	0	0
	28	.152	.245	.20	7	77**	10	7	0	0	0
*OMIT	29	NO ITEM VARIANCE			13	40	10	7	3	27	0
*OMIT	30	NO ITEM VARIANCE			3	10	50	0	7	30	0
	31	.524	.789	.001	53**	7	27	10	3	0	0
	32	.052	.091	N.S.	7	10	10	7	67**	0	0
	33	.026	.070	N.S.	60**	7	7	23	3	0	0
	34	.106	.203	N.S.	3	7	10	60**	20	0	0
	35	.300	.417	.05	23	7	13	7	50**	0	0
	36	.558	.653	.001	37**	30	27	7	0	0	0
	37	.310	.344	.10	7	3	83**	3	3	0	0
	38	.452	.609	.001	3	80**	10	7	0	0	0
	39	.280	.310	.10	0	23	23	50**	3	0	0
	40	.307	.450	.02	0	17	57**	23	3	0	0
*MULT	41	NO ITEM VARIANCE			17**	7**	37**	13**	27**	0	0
*MULT	42	-.116	-.265	.20	3	7	50**	40**	0	0	0
	43	.024	-.033	N.S.	10	77**	10	3	0	0	0
	44	.328	.537	.01	43**	27	27	3	0	0	0
*MULT	45	-.171	-.387	.05	40**	17**	30**	10	3	0	0
	46	.327	.350	.10	3	57**	10	27	3	0	0
*MULT	47	.462	.523	.01	7	40**	23**	10	20	0	0
	48	.566	.648	.001	43	40**	13	3	0	0	0
	49	.486	.549	.01	27	40**	27	7	0	0	0
	50	.327	.350	.10	60**	3	7	20	0	10	0

SUMMARY STATISTICS

TOTAL TEST STATISTICS -- TEST DISTRIBUTION

NUMBER OF STUDENTS TAKING TEST = 30
NUMBER OF ITEMS IN TEST = 50

MEAN TEST SCORE = 58.60
MEDIAN = 56
MODE = NONE

STANDARD DEVIATION = 13.56
SKEWNESS = 0.69
KURTOSIS = -0.03

MAXIMUM = 96
MINIMUM = 40

RANGE = 56

RELIABILITY ESTIMATES - BASED ON 47 ITEMS

KUDER-RICHARDSON 20 (KR 20) = 0.789
STANDARD ERROR OF MEASUREMENT = 6.220

PERCENT CORRECT DISTRIBUTION

BASED ON 48 ITEMS

RANGE	NUMBER OF ITEMS	PERCENTAGE OF ITEMS
.81-1.00	4	8
.61- .80	19	40
.41- .60	20	42
.21- .40	5	10
.00- .20	0	0

MEAN PERCENT CORRECT = .610

POINT BISERIAL DISTRIBUTION

BASED ON 47 ITEMS

RANGE	NUMBER OF ITEMS	PERCENTAGE OF ITEMS
.81-1.00	0	0
.61- .80	1	2
.41- .60	13	28
.21- .40	20	43
.00- .20	11	23
BELOW .00	2	4
NO VARIANCE	1	

MEAN POINT BISERIAL = 0.299

SUBJECT IDENTIFICATION	NUM	SCORE	PCTL	PCTC	RAW
964321000 BUNNY BUG S	21	76	93	79	38
986311011 DUCK DONALD	23	74	83	77	37
933301234 DUKE KENNET	17	54	47	56	27
933333333 FIELDS KIM	4	40	7	42	20
975433332 IDOL BILL Y	25	54	47	56	27
999887777 JONES JIM	2	48	30	50	24
955321123 KENT CLARK	27	96	100	100	48
976655443 LANE LOIS	29	60	63	63	30
911122333 MAYFIELD JANICE	18	44	17	46	22
922333999 MCNULTY EDWIN	12	62	70	65	31
943100132 MOUSE MICKEY	22	72	80	75	36
921011112 MUNSTER HERMAN	24	46	20	48	23
987654321 NGUYEN DAVID	8	60	63	63	30
976544334 OLSON JIMMY	30	76	93	79	38
922000999 OPERATIONS TEST	10	72	80	75	36
988777665 PARKER PETER	28	54	47	56	27
911111111 PEARSON RICAR	5	64	73	67	32
912212121 PRINCE DIAN A	26	76	93	79	38
900000001 SAMPLE I AM	11	48	30	50	24
910000001 SAMPLE 2 I AM	13	40	7	42	20
967997886 SANTIAGO DINAH	9	42	13	44	21
932101234 SMITH KELLY	7	62	70	65	31
911122223 STONE SHARON	16	42	13	44	21
952101234 THOMAS FRANCE	14	56	53	58	28
998778656 VALINTINO ANTHON	31	78	97	81	39
900004444 WASHINGTON JOHN	3	48	30	50	24
967654321 WATERS DAVID	15	50	37	52	25
929948234 WATTS MEGA	20	50	37	52	25
963548234 WILSON CLAUDI	19	56	53	58	28
922222222 YOUNG SALLY	6	58	57	60	29

SUBJECT IDENTIFICATION	NUM	SCORE	PCTL	PCTC	RAW
955321123 KENT CLARK	27	96	100	100	48
998778656 VALINTINO ANTHON	31	78	97	81	39
976544334 OLSON JIMMY	30	76	93	79	38
912212121 PRINCE DIAN A	26	76	93	79	38
964321000 BUNNY BUG S	21	76	93	79	38
986311011 DUCK DONALD	23	74	83	77	37
943100132 MOUSE MICKEY	22	72	80	75	36
922000999 OPERATIONS TEST	10	72	80	75	36
911111111 PEARSON RICHA	5	64	73	67	32
922333999 MCNULTY EDWIN	12	62	70	65	31
932101234 SMITH KELLY	7	62	70	65	31
976655443 LANE LOIS	29	60	63	63	30
987654321 NGUYEN DAVID	8	60	63	63	30
922222222 YOUNG SALLY	6	58	57	60	29
963548234 WILSON CLAUDI	19	56	53	58	28
952101234 THOMAS FRANCE	14	56	53	58	28
988777665 PARKER PETER	28	54	47	56	27
975433332 IDOL BILL Y	25	54	47	56	27
933301234 DUKE KENNET	17	54	47	56	27
929948234 WATTS MEGA	20	50	37	52	25
967654321 WATERS DAVID	15	50	37	52	25
900000001 SAMPLE I AM	11	48	30	50	24
900004444 WASHINGTON JOHN	3	48	30	50	24
999887777 JONES JIM	2	48	30	50	24
921011112 MUNSTER HERMAN	24	46	20	48	23
911122333 MAYFIELD JANICE	18	44	17	46	22
911122223 STONE SHARON	16	42	13	44	21
967997886 SANTIAGO DINAH	9	42	13	44	21
910000001 SAMPLE 2 I AM	13	40	7	42	20
933333333 FIELDS KIM	4	40	7	42	20

SUBJECT IDENTIFICATION	NUM	SCORE	PCTL	PCTC	RAW
900000001	11	48	30	50	24
900004444	3	48	30	50	24
910000001	13	40	7	42	20
911111111	5	64	73	67	32
911122223	16	42	13	44	21
911122333	18	44	17	46	22
912212121	26	76	93	79	38
921011112	24	46	20	48	23
922000999	10	72	80	75	36
922222222	6	58	57	60	29
922333999	12	62	70	65	31
929948234	20	50	37	52	25
932101234	7	62	70	65	31
933301234	17	54	47	56	27
933333333	4	40	7	42	20
943100132	22	72	80	75	36
952101234	14	56	53	58	28
955321123	27	96	100	100	48
963548234	19	56	53	58	28
964321000	21	76	93	79	38
967654321	15	50	37	52	25
967997886	9	42	13	44	21
975433332	25	54	47	56	27
976544334	30	76	93	79	38
976655443	29	60	63	63	30
986311011	23	74	83	77	37
987654321	8	60	63	63	30
988777665	28	54	47	56	27
998778656	31	78	97	81	39
999887777	2	48	30	50	24