

VOCABULARY (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	7	5	8	3	2	9	4	6	1	3	5	8	3	6	7	1	0	4	7	1	1	9
Number Tested = 24		Number Included =																									
	40	59	56	75	58	75	43	68	53	90	48	83	28	93	13	35	18	30	18	40	55	85	95				

Vocabulary (cont.)	40	59	56	75	58	75	43	68	53	90	48	83	28	93	13	35	18	30	18	40	55	85	95
30 Select best synonym		58	42	L	L	L	L	L	N	●	●	●	J	●	L	L	L	N	L	L	●	●	●
31 Select best synonym		42	54	●	●	●	D	●	●	●	C	C	●	●	D	●	A	B	D	C	C	●	●
32 Select best synonym		65	33	●	K	J	K	N	N	●	J	N	K	●	N	L	K	N	N	J	K	●	●
33 Select best synonym		53	42	●	●	B	C	C	C	●	C	C	B	●	B	D	C	●	B	●	C	●	●
34 Select best synonym		49	50	●	●	●	●	J	K	●	N	K	J	●	M	J	J	M	M	●	●	●	●
35 Select best synonym		43	46	D	D	●	●	●	D	●	●	E	D	●	C	●	B	C	C	E	●	●	D
36 Select best synonym		32	46	●	J	●	N	●	●	J	J	●	○	●	N	M	●	●	N	J	M	●	●
37 Select best synonym		39	42	B	●	D	B	●	D	●	●	A	B	●	B	A	A	B	●	B	B	●	●
38 Select best synonym		46	38	●	●	●	K	K	L	K	L	●	L	●	K	N	K	N	M	K	L	●	M
39 Select best synonym		41	46	●	C	B	B	●	B	C	●	●	E	●	C	E	C	●	B	C	●	●	●
40 Select best synonym		57	71	●	●	●	●	●	M	●	●	N	●	N	L	●	J	J	J	●	●	●	●



VOCABULARY

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		24			
	40	59	56	68	85	25	70

Vocabulary	40	59	56	68	85	25	70
1 Select best synonym		77	58	●	●	E	●
2 Select best synonym		83	79	●	●	●	●
3 Select best synonym		72	79	●	●	B	●
4 Select best synonym		71	58	●	●	M	L
5 Select best synonym		73	83	●	●	B	●
6 Select best synonym		77	75	●	●	●	●
7 Select best synonym		78	79	●	●	●	●
8 Select best synonym		63	54	●	●	M	M
9 Select best synonym		70	79	●	●	●	●
10 Select best synonym		54	58	●	J	K	●
11 Select best synonym		45	21	C	●	C	C
12 Select best synonym		69	54	N	●	J	J
13 Select best synonym		47	46	E	●	C	●
14 Select best synonym		51	67	J	●	M	●
15 Select best synonym		67	71	●	●	●	B
16 Select best synonym		53	42	L	●	M	N
17 Select best synonym		62	54	D	●	A	●
18 Select best synonym		41	29	L	L	K	●
19 Select best synonym		62	58	●	●	●	B
20 Select best synonym		58	58	●	●	N	M
21 Select best synonym		70	75	●	●	●	●
22 Select best synonym		53	38	M	●	J	●
23 Select best synonym		61	58	●	●	D	●
24 Select best synonym		65	54	●	●	N	●
25 Select best synonym		47	46	●	E	●	E
26 Select best synonym		63	67	N	●	L	N
27 Select best synonym		63	58	●	●	B	C
28 Select best synonym		54	46	●	●	J	●
29 Select best synonym		73	88	●	●	●	●

%C = Percent Correct

Legend: ● = Correct Response

○ = No Response

* = Multiple Responses

Alpha = Incorrect Response



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VOCABULARY (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		1	0	5	2
	40	59	56	68	85	25	70

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Vocabulary (cont.)		40	59	56	68	85	25	70
30	Select best synonym		58	42	●	●	L	●
31	Select best synonym		42	54	C	●	C	●
32	Select best synonym		65	33	●	●	J	●
33	Select best synonym		53	42	●	B	B	●
34	Select best synonym		49	50	M	●	M	●
35	Select best synonym		43	46	●	D	E	●
36	Select best synonym		32	46	J	J	J	●
37	Select best synonym		39	42	●	●	C	A
38	Select best synonym		46	38	●	●	N	●
39	Select best synonym		41	46	C	●	C	●
40	Select best synonym		57	71	●	●	●	●



READING COMPREHENSION

1072	1001				1099	1079	1074	1099	1022	1025		1030	1036	1076	1600		1071	1044		1047	1119
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Item No.	No. Items	Avg. %C Nation	Avg. %C Class	59	41	43	34	48	25	91	57	66	32	86	32	45	18	34	32	43	48	55	98
Number Tested = 24		Number Included =		24																			

	No. Items	Avg. %C Nation	Avg. %C Class	59	41	43	34	48	25	91	57	66	32	86	32	45	18	34	32	43	48	55	98
Factual Understanding	13	53	50	62	31	46	23	31	23	100	31	77	31	85	23	46	23	54	23	46	38	62	100
4 Understand stated information		60	67	●	J	●	●	J	K	●	●	●	K	J	M	●	M	K	●	●	●	●	●
5 Understand words in context		53	38	C	●	D	C	D	C	●	●	●	C	●	A	A	C	●	C	C	C	●	●
8 Understand stated information		44	46	●	K	●	●	J	●	●	●	K	●	K	M	J	K	●	●	K	K	M	●
11 Understand stated information		47	58	A	B	●	A	●	B	●	C	●	●	●	B	C	C	A	B	●	●	●	●
12 Understand stated information		63	63	L	J	J	L	J	●	●	J	●	●	●	●	●	●	●	L	●	J	●	●
13 Understand words in context		63	67	●	C	●	B	●	C	●	C	●	D	●	D	●	●	D	D	●	●	●	●
15 Understand stated information		50	38	C	B	●	B	B	B	●	C	C	C	●	●	B	C	C	B	B	B	●	●
16 Understand stated information		57	54	K	J	L	●	●	L	●	K	●	J	●	K	●	●	J	L	K	●	●	●
19 Understand stated information		54	42	●	●	●	B	A	C	●	B	●	●	●	C	B	A	●	C	A	B	B	●
22 Understand words in context		45	38	●	J	L	J	L	L	●	J	L	L	●	J	J	M	●	J	●	●	L	●
27 Understand stated information		54	63	●	●	A	B	●	B	●	●	●	●	●	●	●	C	●	C	B	A	●	●
35 Understand stated information		53	33	●	B	B	D	B	●	●	D	●	A	●	B	D	A	A	●	B	B	A	●
43 Understand stated information		48	46	●	●	A	B	C	C	●	B	●	B	●	B	●	C	●	B	●	A	B	●



READING COMPREHENSION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1094	1074	1099	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24		Number Included =		24																			
	44	53	52	59	41	43	34	48	25	91	57	66	32	86	32	45	18	34	32	43	48	55	98

Inference/Interpretation	16	53	48	50	38	31	31	38	25	81	69	69	31	81	31	38	19	13	19	31	50	50	100
2 Infer relationship		39	46	K	●	●	L	K	L	●	L	●	●	L	K	L	K	K	L	●	K	●	●
6 Infer explanation		39	17	J	L	J	●	M	L	J	M	L	L	M	L	J	●	M	M	M	J	M	●
20 Infer implied information		52	50	L	●	L	J	●	●	●	●	●	●	J	K	J	K	K	K	J	●	●	●
25 Interpret nonliteral language		55	50	●	A	●	A	B	A	●	●	B	A	●	●	D	●	●	●	D	D	A	●
28 Infer explanation		54	58	●	●	M	M	●	●	●	●	●	M	●	L	L	K	K	●	M	●	L	●
29 Infer implied information		52	46	B	B	C	●	●	C	●	B	B	B	●	A	●	A	C	B	●	●	B	●
30 Infer explanation		47	25	J	K	●	●	J	K	M	M	K	K	●	K	M	K	J	K	K	M	K	●
31 Infer explanation		48	46	●	D	●	C	C	A	●	C	●	A	●	●	C	C	A	●	●	A	A	●
33 Draw conclusion		53	42	C	C	D	D	C	●	●	●	●	D	●	C	C	C	C	C	A	●	D	●
36 Infer explanation		64	67	●	●	M	J	●	J	●	●	●	●	●	M	●	K	K	K	K	●	●	●
37 Infer feelings		60	50	B	A	C	C	C	C	●	●	●	●	A	●	●	●	C	B	C	A	●	●
38 Infer implied information		62	46	●	J	L	M	M	●	●	●	●	M	●	J	●	M	M	M	L	L	○	●
39 Infer explanation		60	67	●	●	●	D	●	C	●	●	D	D	●	C	●	C	●	D	●	●	●	●
40 Infer feelings		57	42	●	K	J	●	L	J	L	●	●	K	●	K	L	K	L	J	K	L	●	●
41 Infer feelings		54	75	C	●	D	●	●	C	●	●	●	●	●	●	●	●	C	C	D	●	●	●
42 Interpret nonliteral language		47	50	●	K	K	J	M	K	●	●	●	●	●	●	J	K	K	J	J	K	●	●



READING COMPREHENSION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1014	1074	1009	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24		Number Included =		24																			
	44	53	52	59	41	43	34	48	25	91	57	66	32	86	32	45	18	34	32	43	48	55	98
Analysis/Generalization	15	54	58	67	53	53	47	73	27	93	67	53	33	93	40	53	13	40	53	53	53	53	93
1 Make principal generalization		78	67	●	●	●	D	C	C	●	●	C	●	●	C	●	A	C	●	●	●	●	●
3 Identify speaker viewpoint		35	29	C	A	B	A	B	C	●	A	C	A	●	C	A	C	●	●	C	B	●	●
7 Make principal generalization		75	83	●	●	B	●	●	B	●	●	●	●	●	●	C	●	●	●	●	●	●	●
9 Recognize author's purpose		53	63	●	●	●	D	C	C	●	●	●	D	●	C	●	C	B	D	●	D	●	●
10 Make principal generalization		54	54	●	J	J	●	●	●	●	●	●	K	●	J	K	M	K	M	K	M	●	●
14 Make principal generalization		63	63	K	●	M	●	●	M	●	●	●	M	●	●	●	K	K	●	K	●	K	●
17 Make principal generalization		58	58	●	●	●	●	●	D	●	A	C	C	●	A	●	C	A	●	C	●	D	●
18 Determine a main idea		57	75	J	●	●	●	●	K	●	●	●	K	●	●	J	K	●	●	●	J	●	●
21 Analyze aspect of style		48	29	D	C	D	D	●	B	●	B	D	●	D	C	C	D	D	B	●	D	●	●
23 Evaluate aspect of structure		57	58	●	B	●	●	B	●	●	A	●	D	●	B	●	A	●	●	●	D	D	●
24 Make principal generalization		56	63	●	L	●	K	●	K	●	●	L	●	●	●	M	K	●	K	●	●	L	●
26 Evaluate aspect of structure		46	58	M	K	●	M	●	●	●	●	●	●	●	K	●	M	K	M	J	●	●	●
32 Make principal generalization		52	67	●	J	K	●	●	L	●	●	L	L	●	●	●	●	●	●	L	K	●	●
34 Make principal generalization		49	58	●	●	●	L	●	K	●	●	●	K	●	L	●	K	L	K	●	●	K	●
44 Make principal generalization		33	38	●	●	L	M	●	●	M	M	J	L	●	M	M	M	J	L	●	L	J	L



READING COMPREHENSION

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		1	0	5	2
	44	53	52	66	93	34	68

Factual Understanding		13	53	50	62	92	31	62
4	Understand stated information	60	67	●	●	●	●	
5	Understand words in context	53	38	D	●	C	A	
8	Understand stated information	44	46	K	●	K	M	
11	Understand stated information	47	58	●	●	●	●	
12	Understand stated information	63	63	●	●	J	●	
13	Understand words in context	63	67	●	●	●	●	
15	Understand stated information	50	38	●	D	●	●	
16	Understand stated information	57	54	●	●	K	●	
19	Understand stated information	54	42	B	●	A	B	
22	Understand words in context	45	38	L	●	M	●	
27	Understand stated information	54	63	●	●	B	●	
35	Understand stated information	53	33	A	●	D	D	
43	Understand stated information	48	46	●	●	B	A	



READING COMPREHENSION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		24			
	44	53	52	66	93	34	68

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Inference/Interpretation		16	53	48	75	94	31	69
2	Infer relationship	39	46	●	●	K	●	
6	Infer explanation	39	17	●	M	M	J	
20	Infer implied information	52	50	*	●	K	●	
25	Interpret nonliteral language	55	50	D	●	D	●	
28	Infer explanation	54	58	●	●	L	●	
29	Infer implied information	52	46	●	●	B	●	
30	Infer explanation	47	25	●	●	M	M	
31	Infer explanation	48	46	D	●	A	●	
33	Draw conclusion	53	42	●	●	●	C	
36	Infer explanation	64	67	K	●	●	●	
37	Infer feelings	60	50	●	●	●	B	
38	Infer implied information	62	46	●	●	M	●	
39	Infer explanation	60	67	●	●	B	●	
40	Infer feelings	57	42	●	●	●	L	
41	Infer feelings	54	75	●	●	●	●	
42	Interpret nonliteral language	47	50	●	●	J	●	



READING COMPREHENSION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		66	93	34	68
		44	53	52	66	93	34

1			
0		1	
5		0	
2		6	
		1	
	1		
	0		
	6		
	0		
			1
			0
			6
			2

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Analysis/Generalization		15	54	58	60	93	40	73
1	Make principal generalization		78	67	D	●	●	●
3	Identify speaker viewpoint		35	29	C	●	A	B
7	Make principal generalization		75	83	C	●	●	●
9	Recognize author's purpose		53	63	●	●	●	●
10	Make principal generalization		54	54	●	●	M	●
14	Make principal generalization		63	63	●	●	M	●
17	Make principal generalization		58	58	●	●	D	●
18	Determine a main idea		57	75	●	●	●	●
21	Analyze aspect of style		48	29	●	C	B	C
23	Evaluate aspect of structure		57	58	D	●	●	A
24	Make principal generalization		56	63	K	●	●	●
26	Evaluate aspect of structure		46	58	M	●	M	●
32	Make principal generalization		52	67	●	●	L	●
34	Make principal generalization		49	58	●	●	L	M
44	Make principal generalization		33	38	●	●	L	●



SPELLING

	1072	1001			109	1007	1099	1079	1014	1074	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119			
Item No.	No. Items	Avg. %C Nation	Avg. %C Class																				
Number Tested = 24		Number Included =		24																			
	30	55	57	77	53	60	40	60	37	90	90	80	53	33	50	40	77	43	40	37	50	70	90

Root Word Errors		11	55	57	64	64	45	45	55	18	100	82	73	55	27	55	45	64	55	36	45	64	82	100
1	Vowel error		70	83	●	A	A	●	●	●	●	●	●	●	●	●	●	●	●	D	●	●	●	●
4	Vowel error		53	71	●	●	●	●	●	J	●	●	○	●	N	●	●	●	●	●	M	●	●	●
5	Vowel error		58	54	●	●	●	E	●	A	●	●	●	A	B	B	B	●	C	●	C	●	●	●
7	Consonant error		66	75	●	●	●	●	●	●	●	●	●	B	B	●	D	●	B	C	●	●	●	●
8	Vowel/consonant error		47	67	●	●	●	●	N	J	●	N	J	●	J	●	●	●	●	M	●	●	●	●
10	Vowel error		45	25	K	J	J	N	J	J	●	●	●	J	M	N	M	K	J	J	M	N	N	●
12	Vowel error		34	21	J	J	N	N	N	J	●	●	●	J	J	●	N	J	N	N	J	N	N	●
13	Consonant error		77	79	●	●	E	●	●	B	●	●	●	●	●	●	A	●	●	A	●	●	●	●
21	Vowel error		66	75	E	●	●	C	●	D	●	●	●	●	●	●	●	E	●	D	●	●	●	●
25	Vowel error		47	46	●	●	A	B	E	E	●	C	●	●	C	A	B	●	●	A	A	B	●	●
26	Consonant error		41	33	N	K	N	K	N	N	●	●	K	M	K	N	K	N	●	●	K	K	●	●

Affix Errors		13	56	58	85	38	77	46	54	46	77	100	85	46	46	54	54	85	46	38	38	31	69	77
3	Suffix error		36	25	A	A	A	B	E	E	A	●	●	E	E	A	A	A	E	E	A	E	●	E
6	Suffix error		70	75	●	L	●	●	N	●	●	●	●	●	K	●	●	●	●	●	●	●	N	●
11	Suffix error		57	46	E	●	●	E	●	E	●	●	●	E	C	A	E	E	E	A	E	●	●	●
14	Suffix error		49	58	●	N	●	●	N	N	●	●	●	N	●	●	K	●	●	J	●	N	●	●
16	Suffix error		77	92	●	●	●	●	●	N	●	●	●	●	●	●	●	●	●	●	●	M	●	●
17	Suffix error		53	42	●	A	●	E	E	●	A	●	●	E	●	●	E	●	E	E	●	C	●	E
19	Suffix error		23	25	●	B	E	E	E	B	B	●	E	E	C	B	E	●	C	B	E	E	E	E
20	Suffix error		59	75	●	J	●	N	●	●	●	●	●	●	●	●	●	●	●	K	●	K	●	●
23	Suffix error		81	88	●	A	●	●	●	●	●	●	●	D	●	●	●	●	●	●	D	●	●	●
24	Suffix error		65	75	●	●	●	●	●	●	●	●	●	●	●	N	●	●	●	N	●	●	N	●
28	Suffix error		35	29	●	N	N	J	N	N	●	●	N	N	N	N	●	●	●	L	N	J	J	●
29	Suffix error		63	71	●	●	●	●	●	E	●	●	●	●	C	●	●	●	C	E	B	C	●	●
30	Prefix error		56	54	●	●	●	N	●	●	●	●	●	N	K	L	J	●	●	L	N	N	●	●



SPELLING (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
				1072	1001				009	009	001	007	002	005	0030	0036	0076	0000	0071	0044	0047	0047	0019			
Number Tested = 24 Number Included =				30	55	57	77	53	60	40	60	37	90	90	80	53	33	50	40	77	43	40	37	50	70	90
Correct Spelling				6	53	56	83	67	50	17	83	50	100	83	83	67	17	33	0	83	17	50	17	67	50	100
2	Correct spelling	66	63	●	L	●	K	●	●	●	●	●	●	L	J	●	L	●	L	●	●	●	●	●	●	●
9	Correct spelling	41	42	●	●	B	D	●	B	●	B	●	●	A	A	D	D	●	●	A	B	A	A	A	●	
15	Correct spelling	55	58	●	●	D	B	●	B	●	●	●	●	●	B	●	D	●	A	B	A	●	D	●	●	
18	Correct spelling	61	71	●	●	●	●	●	●	●	●	●	●	●	●	M	M	●	M	●	K	●	●	●	●	
22	Correct spelling	43	54	M	●	●	M	M	●	●	●	●	●	●	M	M	M	M	M	●	M	M	M	M	●	
27	Correct spelling	50	50	●	A	C	C	●	A	●	●	●	●	●	C	A	A	●	C	C	A	●	●	●	●	



SPELLING

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	23	63	57	63
Number Tested = 24		Number Included =		24			
	30	55	57				

Root Word Errors		11	55	57	18	55	73	55
1	Vowel error		70	83	A	●	●	●
4	Vowel error		53	71	J	J	N	●
5	Vowel error		58	54	A	●	C	E
7	Consonant error		66	75	●	E	●	●
8	Vowel/consonant error		47	67	N	●	●	M
10	Vowel error		45	25	N	●	●	N
12	Vowel error		34	21	J	J	K	N
13	Consonant error		77	79	E	●	●	●
21	Vowel error		66	75	D	●	●	●
25	Vowel error		47	46	●	E	●	A
26	Consonant error		41	33	N	N	●	●

Affix Errors		13	56	58	15	62	54	69
3	Suffix error		36	25	E	●	●	●
6	Suffix error		70	75	K	●	L	●
11	Suffix error		57	46	E	●	E	C
14	Suffix error		49	58	N	N	J	●
16	Suffix error		77	92	●	●	●	●
17	Suffix error		53	42	E	E	E	B
19	Suffix error		23	25	E	●	●	●
20	Suffix error		59	75	J	N	●	●
23	Suffix error		81	88	●	●	●	●
24	Suffix error		65	75	N	●	N	●
28	Suffix error		35	29	L	N	N	N
29	Suffix error		63	71	C	●	●	●
30	Prefix error		56	54	N	N	●	N



SPELLING (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included = 24					
	30	55	57	23	63	57	63
Correct Spelling	6	53	56	50	83	33	67
2 Correct spelling		66	63	L	●	M	L
9 Correct spelling		41	42	D	A	●	●
15 Correct spelling		55	58	●	●	B	●
18 Correct spelling		61	71	M	●	M	J
22 Correct spelling		43	54	●	●	●	●
27 Correct spelling		50	50	●	●	B	●

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		
	6		
	0		
			1
			0
			6
			2

%C = Percent Correct

Legend: ● = Correct Response ○ = No Response

* = Multiple Responses

Alpha = Incorrect Response



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REVISING WRITTEN MATERIALS

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1084	1074	1099	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24		Number Included =		24																			
	56	58	64	73	30	66	63	57	18	88	71	84	27	73	34	55	27	45	34	55	50	59	96
Spelling	5	51	54	80	40	100	80	80	0	80	80	100	40	40	20	40	0	60	40	60	20	60	100
6 No spelling errors		69	67	●	L	●	●	●	L	●	●	●	M	L	K	●	L	●	●	●	●	●	●
23 Suffix error		46	42	●	●	●	●	●	C	A	A	●	A	A	A	A	●	D	●	D	A	●	
27 Consonant omission		41	42	●	A	●	●	A	C	●	●	●	B	●	C	C	C	A	B	B	B	●	●
44 Vowel substitution		47	54	J	●	●	●	●	J	●	●	●	●	●	L	K	K	K	●	L	L	J	●
51 Suffix error		52	67	●	D	●	B	●	B	●	●	●	●	D	●	●	A	●	B	●	A	●	●
Capitalization/Punctuation	5	56	50	80	60	80	40	0	0	40	40	80	20	40	40	60	40	60	20	60	40	60	100
7 Punctuation: subordinate phrase		70	67	●	●	●	D	D	D	●	●	●	C	A	A	●	●	●	D	●	●	●	●
22 Capitalization: geographic term		45	29	●	●	M	L	M	M	K	K	●	K	●	M	L	K	K	L	L	L	K	●
25 Punctuation: direct quote		60	58	C	●	●	●	A	A	●	●	●	B	B	●	●	C	●	●	●	C	●	●
48 Punctuation: join ind clauses with conj adv		52	71	●	J	●	●	L	J	L	J	●	●	●	●	●	●	L	L	●	●	●	●
54 Capitalization: geographic term, overcap		53	25	●	J	●	J	L	L	M	J	M	J	M	L	M	M	●	M	L	L	M	●
Usage/Grammar	9	58	56	78	44	67	44	56	11	89	78	89	11	100	22	56	33	33	44	33	44	56	100
12 Possessive pronoun vs. contraction		67	58	●	●	●	M	●	●	●	●	●	J	●	M	●	L	M	●	M	●	J	●
18 Possessive pronoun vs. contraction		63	88	●	●	●	●	●	J	●	●	●	●	●	●	●	K	●	●	●	●	●	●
22 Verb form		45	29	●	●	M	L	M	M	K	K	●	K	●	M	L	K	K	L	L	L	K	●
28 Possessive formation		69	71	●	L	●	●	●	M	●	●	●	M	●	L	L	●	●	●	●	L	M	●
38 Pronoun case/form		56	79	●	J	●	●	●	K	●	●	●	K	●	●	●	●	●	●	●	●	J	●
39 Subject-verb agreement		51	42	D	●	●	A	A	A	●	D	●	A	●	A	C	C	A	D	D	A	●	●
43 Subject-verb agreement		50	38	●	A	A	C	A	D	●	●	●	A	●	C	A	C	C	C	D	A	●	●
45 Modifier form		71	67	●	B	●	●	●	B	●	●	●	B	●	D	●	A	D	D	●	●	●	●
46 Modifier form		54	38	J	J	L	L	L	L	●	●	L	L	●	L	●	●	L	L	M	L	L	●



REVISING WRITTEN MATERIALS (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1084	1071	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119		
Number Tested = 24		Number Included =		24																			
	56	58	64	73	30	66	63	57	18	88	71	84	27	73	34	55	27	45	34	55	50	59	96

Sentence Structure	17	62	62	76	35	71	59	41	24	94	88	82	18	76	41	76	35	35	35	76	65	76	100
3 Avoiding dangling modifier		60	50	A	D	•	D	C	•	•	•	A	•	•	D	D	•	D	•	•	A	A	•
5 Avoiding tense/voice shift		72	79	B	•	•	•	•	B	•	•	•	A	•	•	•	D	•	B	•	•	•	•
7 Avoiding fragment/run-on		70	67	•	•	•	D	D	D	•	•	•	C	A	A	•	•	•	D	•	•	•	•
9 Parallel structure		83	88	•	•	•	•	•	A	•	•	•	D	•	•	•	•	•	C	•	•	•	•
12 Subordination		67	58	•	•	•	M	•	•	•	•	•	J	•	M	•	L	M	•	M	•	J	•
13 Avoiding fragment/run-on		50	50	•	C	•	C	•	•	•	•	•	C	C	C	•	•	C	C	C	D	C	•
15 Sentence combining		62	63	A	•	•	B	A	•	•	•	B	B	•	•	•	C	B	•	•	B	•	•
19 Modifier placement		64	67	•	B	•	•	A	B	•	•	•	A	•	•	A	C	•	•	•	•	•	•
20 Modifier placement		72	54	•	J	M	M	M	L	•	•	•	J	M	M	M	M	M	•	•	•	•	•
24 Coordination		58	63	•	•	•	•	J	K	•	M	•	•	•	•	•	•	K	M	•	J	•	•
30 Sentence combining		62	58	•	K	M	•	•	K	•	•	•	M	•	•	K	•	K	M	M	•	•	•
33 Avoiding dangling modifier		63	71	•	A	D	•	•	C	•	•	•	C	•	•	•	C	•	C	•	•	•	•
36 Avoiding fragment/run-on		60	67	•	K	•	•	•	K	•	•	•	K	•	K	•	K	M	M	•	•	•	•
40 Sentence combining		58	54	K	L	•	•	K	K	•	•	•	L	•	L	•	K	L	K	M	•	•	•
43 Avoiding tense/voice shift		50	38	•	A	A	C	A	D	•	•	•	A	•	C	A	C	C	C	D	A	•	•
48 Avoiding fragment/run-on		52	71	•	J	•	•	L	J	L	J	•	•	•	•	•	•	L	L	•	•	•	•
53 Avoiding tense/voice shift		52	54	•	B	B	•	A	B	•	•	•	D	A	D	•	•	•	D	•	D	B	•



REVISING WRITTEN MATERIALS (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Number Tested = 24 Number Included =				73	30	66	63	57	18	88	71	84	27	73	34	55	27	45	34	55	50	59	96		

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Organization of Ideas				12	55	50	58	8	50	58	67	25	92	58	83	50	83	17	25	33	33	25	33	50	42	92
4	Transitional word/phrase	52	50	●	●	M	●	M	●	●	J	M	●	●	M	M	●	●	M	●	J	M	●			
14	Transitional word/phrase	51	50	M	L	●	L	●	K	●	M	●	K	●	K	M	●	●	K	M	●	L	●			
17	Transition sentence	71	79	●	C	●	●	●	●	●	●	●	●	●	●	●	A	A	C	A	●	●	●			
21	Content relevance	61	42	B	C	B	●	●	D	●	●	●	C	●	●	C	C	B	●	B	B	B	●			
26	Sentence order/placement	54	46	K	K	M	●	●	K	●	J	●	●	M	K	J	M	J	J	●	J	●	●			
32	Sentence order/placement	50	50	●	K	J	L	●	K	●	L	●	L	●	J	L	●	J	K	●	●	●	●			
35	Transitional word/phrase	62	50	●	D	●	D	A	A	A	●	●	●	●	D	C	A	●	●	D	●	D	●			
42	Concluding sentence	61	58	●	K	●	●	●	K	●	●	●	J	●	K	●	K	M	M	M	J	●	●			
47	Transitional word/phrase	60	71	●	B	●	●	●	B	●	●	●	●	●	D	B	C	●	B	C	●	●	●			
52	Transition sentence	41	29	K	J	●	L	K	J	●	J	●	K	●	L	●	K	J	L	L	J	○	●			
55	Concluding sentence	56	54	●	B	D	A	●	B	●	●	●	●	●	A	A	●	D	●	●	●	●	D	●		
56	Sentence order/placement	41	21	L	L	K	●	K	●	●	●	L	M	M	M	L	K	K	K	L	M	K	L			



REVISING WRITTEN MATERIALS (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1084	1074	1091	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24		Number Included =		24																			
	56	58	64	73	30	66	63	57	18	88	71	84	27	73	34	55	27	45	34	55	50	59	96

Appropriateness of Expression	16	57	58	88	31	50	63	63	25	81	56	81	31	75	38	50	25	56	31	56	56	50	94
1 Clarity; precise language	47	63	●	●	A	●	●	●	●	C	D	D	●	A	●	C	●	●	C	C	C	●	●
2 Diction appropriate to style/purpose	49	25	M	M	M	M	J	M	●	M	●	●	K	●	K	M	J	J	●	M	J	K	J
4 Clarity; precise language	52	50	●	●	M	●	M	●	●	J	M	●	●	M	M	●	●	M	●	J	M	●	●
8 Diction appropriate to style/purpose	75	71	●	L	●	L	●	K	●	●	●	●	K	●	K	●	J	●	K	●	●	●	●
10 Diction appropriate to style/purpose	80	83	●	●	●	●	●	K	●	●	●	●	L	J	●	●	L	●	●	●	●	●	●
11 Diction appropriate to style/purpose	52	58	●	●	A	●	●	●	D	●	D	B	D	B	●	D	●	B	●	D	●	●	●
16 Clarity; precise language	53	54	M	K	●	●	●	●	●	M	●	M	K	●	J	K	●	●	●	K	J	●	●
29 Diction appropriate to style/purpose	49	67	●	C	●	●	●	C	●	C	●	●	●	●	C	●	C	●	C	D	●	B	●
31 Appropriate diction & precise language	48	50	●	C	●	C	C	A	●	●	●	●	B	●	C	C	C	C	C	C	●	C	●
32 Diction appropriate to style/purpose	50	50	●	K	J	L	●	K	●	L	●	L	●	J	L	●	J	K	●	●	●	●	●
34 Avoiding redundancy	65	67	●	K	M	●	●	K	●	●	●	●	J	●	J	●	K	●	M	●	●	○	●
35 Avoiding wordiness	62	50	●	D	●	D	A	A	A	●	●	●	●	●	D	C	A	●	●	D	●	D	●
37 Clarity; precise language	52	71	●	C	B	●	●	C	●	●	●	●	●	B	●	C	●	B	B	●	●	●	●
41 Diction appropriate to style/purpose	61	50	●	A	●	●	A	C	●	A	●	A	●	●	●	A	B	B	●	A	A	●	●
49 Diction appropriate to style/purpose	57	63	●	●	●	B	●	B	●	●	●	●	B	●	B	●	C	B	B	●	●	●	●
50 Clarity; precise language	64	54	●	L	K	●	M	L	●	●	●	●	K	●	L	●	K	M	L	M	K	●	●



REVISING WRITTEN MATERIALS

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		24			
	56	58	64	54	77	70	63

Spelling		5	51	54	20	40	60	60
6	No spelling errors		69	67	L	L	●	●
23	Suffix error		46	42	A	A	C	●
27	Consonant omission		41	42	●	B	A	C
44	Vowel substitution		47	54	L	●	●	J
51	Suffix error		52	67	A	●	●	●

Capitalization/Punctuation		5	56	50	40	80	100	20
7	Punctuation: subordinate phrase		70	67	●	●	●	C
22	Capitalization: geographic term		45	29	K	●	●	M
25	Punctuation: direct quote		60	58	A	C	●	C
48	Punctuation: join ind clauses with conj adv		52	71	●	●	●	●
54	Capitalization: geographic term, overcap		53	25	J	●	●	L

Usage/Grammar		9	58	56	22	89	89	67
12	Possessive pronoun vs. contraction		67	58	J	M	●	M
18	Possessive pronoun vs. contraction		63	88	M	●	●	●
22	Verb form		45	29	K	●	●	M
28	Possessive formation		69	71	●	●	●	●
38	Pronoun case/form		56	79	J	●	●	●
39	Subject-verb agreement		51	42	D	●	●	●
43	Subject-verb agreement		50	38	A	●	●	C
45	Modifier form		71	67	D	●	●	●
46	Modifier form		54	38	●	●	L	●



REVISING WRITTEN MATERIALS (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		24			
	56	58	64	54	77	70	63

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Sentence Structure		17	62	62	59	82	71	65
3	Avoiding dangling modifier		60	50	●	A	A	●
5	Avoiding tense/voice shift		72	79	●	●	●	●
7	Avoiding fragment/run-on		70	67	●	●	●	C
9	Parallel structure		83	88	●	●	●	●
12	Subordination		67	58	J	M	●	M
13	Avoiding fragment/run-on		50	50	C	●	●	C
15	Sentence combining		62	63	●	●	●	C
19	Modifier placement		64	67	A	A	●	●
20	Modifier placement		72	54	●	●	●	●
24	Coordination		58	63	K	●	J	●
30	Sentence combining		62	58	J	●	K	●
33	Avoiding dangling modifier		63	71	●	●	C	●
36	Avoiding fragment/run-on		60	67	M	●	●	●
40	Sentence combining		58	54	●	●	L	●
43	Avoiding tense/voice shift		50	38	A	●	●	C
48	Avoiding fragment/run-on		52	71	●	●	●	●
53	Avoiding tense/voice shift		52	54	●	●	●	A

%C = Percent Correct

Legend: ● = Correct Response ○ = No Response

* = Multiple Responses

Alpha = Incorrect Response



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REVISING WRITTEN MATERIALS (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		24			
	56	58	64	54	77	70	63

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Organization of Ideas		12	55	50	50	67	67	33
4	Transitional word/phrase		52	50	M	K	●	K
14	Transitional word/phrase		51	50	●	●	●	L
17	Transition sentence		71	79	●	●	●	●
21	Content relevance		61	42	●	C	B	B
26	Sentence order/placement		54	46	●	●	●	J
32	Sentence order/placement		50	50	L	●	●	L
35	Transitional word/phrase		62	50	A	●	A	●
42	Concluding sentence		61	58	●	●	K	●
47	Transitional word/phrase		60	71	●	●	●	●
52	Transition sentence		41	29	K	●	K	L
55	Concluding sentence		56	54	A	A	●	A
56	Sentence order/placement		41	21	K	M	●	M



REVISING WRITTEN MATERIALS (cont.)

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class
Number Tested = 24		Number Included = 24	
	56	58	64
		54	77
		70	63

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	2	3	4
Appropriateness of Expression								
16		16	57	58	69	81	63	75
1	Clarity; precise language		47	63	●	●	●	●
2	Diction appropriate to style/purpose		49	25	●	M	J	●
4	Clarity; precise language		52	50	M	K	●	K
8	Diction appropriate to style/purpose		75	71	●	●	●	●
10	Diction appropriate to style/purpose		80	83	●	●	●	●
11	Diction appropriate to style/purpose		52	58	●	●	B	●
16	Clarity; precise language		53	54	●	●	J	J
29	Diction appropriate to style/purpose		49	67	●	B	●	●
31	Appropriate diction & precise language		48	50	C	●	●	●
32	Diction appropriate to style/purpose		50	50	L	●	●	L
34	Avoiding redundancy		65	67	●	●	●	●
35	Avoiding wordiness		62	50	A	●	A	●
37	Clarity; precise language		52	71	●	●	●	●
41	Diction appropriate to style/purpose		61	50	A	●	A	●
49	Diction appropriate to style/purpose		57	63	●	●	B	B
50	Clarity; precise language		64	54	●	●	●	●



CONCEPTS & PROB. SOLV.

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1009	1079	1079	1071	1074	109	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119		
Number Tested = 24		Number Included =		23																			
	40	46	47	43	35		35	25	20	65	30	65	28	90	40	65	23	53	18	18	33	40	73

Concepts/Procedures	7	48	48	57	14	14	14	43	86	14	71	14	100	29	71	29	57	29	29	14	14	86	
5 Select appropriate procedures: probability		64	61	●	B	○	C	A	●	●	A	●	B	●	A	●	●	●	B	A	C	●	●
17 Select appropriate procedures: oper on number		63	61	●	B	○	●	A	B	●	E	●	B	●	●	●	C	●	●	C	E	B	●
18 Identify examples: algebraic concepts		46	52	●	M	○	N	M	L	●	K	●	M	●	●	●	●	●	K	●	N	N	N
27 Select appropriate procedures: measurement		39	48	●	●	○	E	●	B	C	C	●	●	●	D	●	C	C	●	E	●	B	●
30 Select appropriate procedures: alg concepts		38	43	K	J	○	M	L	●	●	J	●	K	●	L	●	K	●	M	●	M	K	●
31 Identify examples: numbers		54	39	C	C	○	D	B	●	●	●	D	B	●	E	C	C	C	B	C	C	D	●
34 Identify examples: algebraic concepts		33	30	L	K	○	K	M	M	●	K	L	K	●	M	M	N	L	M	K	N	L	●

Data Interpretation	14	45	48	57	36	36	29	14	64	21	71	29	86	43	71	14	57	7	29	50	50	79	
4 Make inference: numbers		54	57	●	J	○	●	J	M	●	K	●	●	●	●	M	●	M	M	●	K	M	
7 Interpret data: data analysis		43	43	●	C	○	B	E	B	●	E	●	E	●	●	E	C	E	C	E	B	●	
8 Interpret data: data analysis		57	61	●	M	○	L	L	L	●	L	●	●	●	●	M	●	M	●	●	●	N	
9 Interpret data: data analysis		54	43	A	●	○	●	A	D	D	D	●	●	●	A	C	●	D	A	C	D	●	
10 Make inference: data analysis		65	65	L	J	○	●	●	N	●	●	●	L	●	K	●	●	●	J	●	●	K	●
28 Make inference: numbers		43	57	●	●	○	L	N	L	M	●	●	N	●	●	M	J	L	L	●	●	●	
32 Make inference: operations on numbers		42	65	J	●	○	●	L	●	●	●	●	L	J	M	●	M	●	L	●	●	●	
33 Make inference: measurement		24	26	E	E	○	E	E	C	E	E	E	C	A	A	E	●	●	C	B	B	●	
35 Interpret data: data analysis		42	35	●	●	○	E	E	E	●	○	B	E	●	D	●	D	B	B	B	E	D	
36 Make inference: data analysis		48	48	●	N	○	N	●	J	●	○	●	K	●	●	N	L	N	L	●	●	K	●
37 Make inference: data analysis		29	30	D	A	○	A	C	●	D	○	A	D	●	A	A	●	A	C	A	●	C	●
38 Make inference: operations on numbers		45	52	M	M	○	N	●	L	●	○	●	J	●	N	●	L	●	N	L	J	●	●
39 Make inference: data analysis		46	43	●	●	○	C	C	D	A	○	●	●	●	C	●	D	B	B	D	D	●	●
40 Make inference: statistics		41	48	●	L	○	●	N	N	●	○	●	K	●	K	●	L	●	L	N	L	●	●

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Legend: ● = Correct Response ○ = No Response

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CONCEPTS & PROB. SOLV. (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1094	1074	1099	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119				
Number Tested = 24		Number Included =		23																						
	40	46	47	43	35	35	25	20	65	30	65	28	90	40	65	23	53	18	18	33	40	73				

Problem Solving	19	47	45	26	42	42	26	16	58	42	58	32	89	42	58	26	47	21	5	26	42	63
1 Reason quantitatively: operations on numbers	72	83	●	●	○	●	●	A	●	●	●	●	●	●	●	B	●	D	●	●	●	●
2 Evaluate reasonableness: oper on numbers	66	65	M	●	○	●	●	K	●	N	●	●	●	●	●	L	●	K	L	M	M	●
3 Reason quantitatively: operations on numbers	67	65	B	B	○	A	C	C	●	●	●	●	●	B	●	●	●	B	B	●	●	●
6 Reason quantitatively: operations on numbers	57	43	●	J	○	K	●	J	●	K	K	●	●	K	K	●	N	J	K	M	K	●
11 Reason quantitatively: geometry	41	35	D	●	○	C	A	A	D	●	●	D	●	A	●	E	D	D	C	●	D	●
12 Reason quantitatively: geometry	40	35	N	L	○	●	J	K	●	J	●	K	●	●	K	●	N	N	N	J	L	○
13 Reason quantitatively: geometry	42	35	C	A	○	D	A	C	C	C	C	A	●	●	C	C	●	D	A	●	D	C
14 Reason quantitatively: operations on numbers	46	48	J	K	○	●	K	M	●	●	●	M	●	●	●	K	M	●	K	L	K	○
15 Reason quantitatively: operations on numbers	54	39	C	C	○	C	A	●	●	●	C	C	●	B	●	B	C	D	D	A	●	○
16 Reason quantitatively: operations on numbers	47	48	N	●	○	●	●	J	K	M	●	N	●	●	●	J	●	K	K	K	N	○
19 Evaluate reasonableness: oper on numbers	57	61	●	●	○	●	●	D	A	A	●	A	●	C	●	●	●	E	D	E	●	●
20 Reason quantitatively: algebraic concepts	34	48	●	K	○	●	J	N	●	N	J	L	●	●	●	L	●	●	N	●	J	K
21 Evaluate reasonableness: oper on numbers	34	48	B	●	○	B	C	●	E	●	●	●	●	B	E	B	●	B	B	B	●	●
22 Evaluate reasonableness: measurement	28	35	N	●	○	J	K	K	L	J	J	N	K	N	●	J	J	L	K	N	●	●
23 Reason quantitatively: operations on numbers	52	48	●	●	○	A	E	●	●	A	●	B	●	●	D	E	D	●	B	A	●	A
24 Reason quantitatively: geometry	28	22	M	K	○	L	M	M	M	●	M	K	●	K	M	M	K	M	L	L	L	●
25 Evaluate reasonableness: oper on numbers	34	22	B	C	○	D	D	E	●	D	E	D	B	E	●	C	C	●	B	E	C	●
26 Reason quantitatively: operations on numbers	56	57	N	K	○	●	K	J	●	●	●	●	●	J	N	K	●	M	M	K	●	●
29 Reason quantitatively: operations on numbers	30	22	D	D	○	E	B	D	B	D	B	D	●	B	A	●	D	E	B	A	E	●



CONCEPTS & PROB. SOLV.

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		23			
	40	46	47	33	98	63	85

Concepts/Procedures	7	48	48	57	86	71	100
5 Select appropriate procedures: probability		64	61	●	●	●	●
17 Select appropriate procedures: oper on number		63	61	●	●	●	●
18 Identify examples: algebraic concepts		46	52	L	●	●	●
27 Select appropriate procedures: measurement		39	48	D	C	C	●
30 Select appropriate procedures: alg concepts		38	43	K	●	M	●
31 Identify examples: numbers		54	39	●	●	●	●
34 Identify examples: algebraic concepts		33	30	●	●	●	●

Data Interpretation	14	45	48	21	100	71	71
4 Make inference: numbers		54	57	K	●	●	●
7 Interpret data: data analysis		43	43	D	●	●	●
8 Interpret data: data analysis		57	61	M	●	●	●
9 Interpret data: data analysis		54	43	●	●	●	C
10 Make inference: data analysis		65	65	L	●	●	●
28 Make inference: numbers		43	57	●	●	M	●
32 Make inference: operations on numbers		42	65	M	●	●	●
33 Make inference: measurement		24	26	B	●	B	●
35 Interpret data: data analysis		42	35	D	●	●	D
36 Make inference: data analysis		48	48	K	●	●	N
37 Make inference: data analysis		29	30	A	●	●	A
38 Make inference: operations on numbers		45	52	●	●	●	●
39 Make inference: data analysis		46	43	B	●	C	●
40 Make inference: statistics		41	48	L	●	N	●



CONCEPTS & PROB. SOLV. (cont.)

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		23			
	40	46	47	33	98	63	85

Problem Solving	19	47	45	32	100	53	89
1 Reason quantitatively: operations on numbers	72	83	D	●	●	●	
2 Evaluate reasonableness: oper on numbers	66	65	●	●	●	●	
3 Reason quantitatively: operations on numbers	67	65	●	●	●	●	
6 Reason quantitatively: operations on numbers	57	43	●	●	K	●	
11 Reason quantitatively: geometry	41	35	D	●	C	D	
12 Reason quantitatively: geometry	40	35	L	●	N	●	
13 Reason quantitatively: geometry	42	35	●	●	●	●	
14 Reason quantitatively: operations on numbers	46	48	L	●	●	●	
15 Reason quantitatively: operations on numbers	54	39	B	●	●	●	
16 Reason quantitatively: operations on numbers	47	48	M	●	●	●	
19 Evaluate reasonableness: oper on numbers	57	61	C	●	●	●	
20 Reason quantitatively: algebraic concepts	34	48	N	●	K	●	
21 Evaluate reasonableness: oper on numbers	34	48	B	●	C	●	
22 Evaluate reasonableness: measurement	28	35	●	●	●	●	
23 Reason quantitatively: operations on numbers	52	48	B	●	A	●	
24 Reason quantitatively: geometry	28	22	L	●	M	●	
25 Evaluate reasonableness: oper on numbers	34	22	B	●	B	C	
26 Reason quantitatively: operations on numbers	56	57	●	●	●	●	
29 Reason quantitatively: operations on numbers	30	22	B	●	E	●	



COMPUTATION

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1071	1074	1099	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119				
Number Tested = 24		Number Included =		23																						
		30	56	55	60	27	83	47	17	47	63	53	37	73	67	87	20	80	23	20	40	47	43			
Integers				9	70	68	78	56	89	67	22	67	89	89	44	78	89	89	11	100	22	33	56	89	67	
1	Add integers	90	70	●	E	○	●	●	●	●	●	●	●	●	E	●	●	E	●	D	D	●	●	●		
2	Subtract integers	83	78	●	●	○	●	N	L	●	●	●	●	●	●	●	M	●	L	●	●	●	●	●		
3	Multiply integers	68	57	E	●	○	●	B	D	D	●	●	E	●	●	●	●	●	D	A	●	○	E	●		
9	Multiply integers	74	83	●	●	○	●	A	B	●	●	●	●	A	●	●	A	●	●	●	●	●	●	●		
10	Subtract integers	63	61	●	L	○	L	●	L	●	L	●	●	●	●	●	K	●	L	M	K	●	M	●		
11	Order of operations	52	61	●	D	○	●	●	D	●	●	●	●	A	●	B	●	C	●	D	C	B	●	●		
16	Multiply integers	67	70	●	●	○	●	●	N	●	●	●	●	J	●	●	●	K	●	●	M	N	●	○		
17	Mixed operations	71	78	●	●	○	●	●	●	A	●	●	●	E	●	●	●	E	●	C	A	●	●	●		
18	Order of operations	62	57	J	M	○	●	●	L	M	●	M	L	●	●	N	M	●	J	●	L	●	●	●		
Decimals/Percents				8	59	55	63	25	88	63	13	63	63	38	38	75	50	88	50	63	38	25	38	38		
6	Add decimals	81	83	●	N	○	●	●	●	●	●	●	●	K	J	●	●	●	●	●	K	●	●	●		
7	Divide percents	55	57	D	D	○	●	●	D	●	●	D	●	●	D	●	●	C	D	D	●	●	○			
8	Multiply decimals	60	43	●	J	○	●	J	N	●	●	M	M	●	J	●	M	J	●	M	M	K	○			
12	Multiply percents	75	83	●	K	○	N	●	N	●	●	●	●	●	●	●	K	●	●	●	●	●	●			
19	Divide decimals	50	43	●	●	○	●	●	D	D	B	B	A	A	●	D	●	●	B	D	D	B	○			
20	Divide to find percent	50	48	K	N	○	●	●	N	●	N	●	L	●	●	●	K	●	J	K	L	K	●			
21	Subtract decimals	55	52	●	●	○	●	A	B	A	●	D	●	●	B	●	C	●	A	●	D	B	○			
24	Divide decimals	45	30	N	J	○	●	M	N	J	M	L	N	●	M	●	●	N	M	J	M	L	○			
Fractions				5	41	38	0	20	80	0	40	20	40	40	20	80	20	60	0	80	0	20	20	20		
4	Subtract fractions	47	39	M	J	○	●	J	●	L	●	●	M	●	M	●	M	L	J	L	J	M	○			
5	Multiply fractions	36	39	D	E	○	●	E	B	●	●	C	B	B	C	●	E	●	E	D	B	C	○			
23	Add fractions	44	48	B	●	○	●	C	●	A	E	B	●	●	C	C	●	B	●	B	A	○	○			
28	Simplify fractions	41	43	N	J	○	●	○	N	N	○	●	N	●	N	N	K	●	K	M	●	●	○			
29	Divide fractions	35	22	B	C	○	D	B	B	C	○	C	B	●	D	●	C	●	C	A	C	B	○			

%C = Percent Correct

Legend: ● = Correct Response ○ = No Response

* = Multiple Responses

Alpha = Incorrect Response



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COMPUTATION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Number Tested = 24		Number Included =		23																					
	30	56	55	60	27			83	47	17	47	63	53	37	73	67	87	20	80	23	20	40	47	43	
Algebraic Manipulations				8	46	51	75	0	75	38	0	25	50	38	38	63	88	100	13	75	25	0	38	25	50
13	Solve equation	52	48	●	A	○	E	B	B	E	●	E	C	●	●	●	●	A	●	C	A	E	●	E	
14	Simplify algebraic expression	56	57	●	L	○	●	L	L	●	●	●	●	M	●	●	●	L	●	K	K	L	K	●	
15	Simplify algebraic expression	47	48	●	A	○	A	C	D	E	C	●	A	●	●	●	●	A	●	C	C	C	C	●	
22	Solve equation	61	61	●	L	○	●	●	L	N	●	●	K	●	●	●	●	M	M	K	L	L	●	●	
25	Simplify algebraic expression	40	57	●	B	○	●	●	B	●	●	D	B	●	●	●	●	E	D	●	E	●	D	○	
26	Simplify algebraic expression	34	35	K	L	○	●	●	L	K	○	K	M	N	●	●	●	M	●	L	L	L	L	N	
27	Simplify algebraic expression	34	48	D	D	○	●	D	D	B	○	D	●	●	●	●	●	C	●	D	B	●	B	○	
30	Solve equation	41	52	●	N	○	●	N	L	L	○	N	●	K	K	●	●	●	●	●	K	●	L	●	



COMPUTATION

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		23			
	30	56	55	43	93	93	100

Integers	9	70	68	56	89	89	100
1 Add integers		90	70	D	A	●	●
2 Subtract integers		83	78	○	●	●	●
3 Multiply integers		68	57	●	●	A	●
9 Multiply integers		74	83	●	●	●	●
10 Subtract integers		63	61	●	●	●	●
11 Order of operations		52	61	D	●	●	●
16 Multiply integers		67	70	N	●	●	●
17 Mixed operations		71	78	●	●	●	●
18 Order of operations		62	57	●	●	●	●

Decimals/Percents	8	59	55	25	100	88	100
6 Add decimals		81	83	●	●	●	●
7 Divide percents		55	57	D	●	●	●
8 Multiply decimals		60	43	J	●	●	●
12 Multiply percents		75	83	●	●	●	●
19 Divide decimals		50	43	E	●	●	●
20 Divide to find percent		50	48	J	●	K	●
21 Subtract decimals		55	52	A	●	●	●
24 Divide decimals		45	30	N	●	●	●

Fractions	5	41	38	40	80	100	100
4 Subtract fractions		47	39	M	●	●	●
5 Multiply fractions		36	39	●	●	●	●
23 Add fractions		44	48	C	●	●	●
28 Simplify fractions		41	43	●	●	●	●
29 Divide fractions		35	22	B	B	●	●

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COMPUTATION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		1	0	5	2
		30	56	43	93	93	100
			23				
Algebraic Manipulations		8	46	51	50	100	100
13	Solve equation	52	48	●	●	●	●
14	Simplify algebraic expression	56	57	L	●	●	●
15	Simplify algebraic expression	47	48	●	●	●	●
22	Solve equation	61	61	●	●	●	●
25	Simplify algebraic expression	40	57	B	●	●	●
26	Simplify algebraic expression	34	35	M	●	●	●
27	Simplify algebraic expression	34	48	●	●	●	●
30	Solve equation	41	52	L	●	●	●



SOCIAL STUDIES

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	109	1007	1099	1079	1094	1074	1099	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24		Number Included =		24																			
	50	51	48	52	32	26	48	54	28	86	42	76	20	82	26	48	40	30	32	28	38	42	84

Interpreting Information	26	48	48	38	35	31	42	46	35	85	35	69	19	85	27	50	46	42	27	27	35	46	77
4 Make inference/prediction: economics	67	58	●	J	L	L	M	●	●	●	●	●	●	●	L	L	●	L	●	J	●	●	●
9 Make inference/prediction: history	59	75	●	●	A	A	●	D	●	●	●	●	C	●	●	●	●	●	●	A	●	●	●
11 Identify point of cartoon: political science	73	75	●	B	●	●	●	C	●	●	●	●	B	●	●	●	C	●	C	●	●	●	●
16 Make inference/prediction: political science	48	50	●	K	M	J	K	K	●	J	J	M	●	M	J	K	●	●	●	●	●	●	●
17 Interpret map information: geography	37	33	A	D	●	B	B	●	●	A	B	B	B	B	●	B	●	B	B	B	A	●	A
18 Interpret information in graphs: geography	49	46	●	●	L	●	●	●	●	L	●	K	●	L	L	J	●	L	J	J	L	L	L
19 Interpret information in graphs: geography	76	79	●	●	●	●	●	●	●	●	●	●	●	C	●	C	●	D	A	●	●	●	●
20 Draw conclusions from data: education	58	67	L	●	●	●	●	L	●	●	●	K	●	●	●	K	L	K	●	L	●	●	●
21 Make inference/prediction: economics	45	33	A	C	B	C	●	●	●	A	●	B	●	●	A	B	A	C	B	A	C	B	B
23 Interpret information in graphs: geography	61	54	●	D	B	●	B	●	●	B	●	●	●	A	●	●	D	A	A	A	A	B	●
26 Make inference/prediction: political science	37	38	M	●	L	●	●	L	L	M	●	K	●	M	L	●	L	K	K	M	●	●	K
27 Make inference/prediction: political science	41	46	C	B	C	●	●	●	●	B	●	A	●	C	A	C	B	●	C	A	●	●	●
28 Make inference/prediction: political science	48	38	K	J	M	●	K	K	●	K	●	M	●	●	K	K	K	K	J	M	●	●	●
29 Make inference/prediction: political science	40	33	D	●	C	A	C	C	D	●	C	○	D	A	C	●	D	●	●	A	A	●	●
34 Make inference/prediction: sociology	35	33	L	●	L	M	L	K	●	L	L	M	●	L	●	●	●	●	K	L	K	K	●
35 Make inference/prediction: political science	48	33	B	B	A	A	B	●	●	●	D	A	●	A	A	●	D	D	D	●	D	D	D
36 Make inference/prediction: political science	40	46	●	L	K	●	●	M	●	●	●	K	●	M	●	K	L	L	K	●	K	●	●
38 Make inference/prediction: political science	42	46	J	M	●	M	K	●	●	J	●	M	●	K	K	J	K	K	●	K	J	●	●
41 Make inference/prediction: economics	40	33	A	●	C	D	C	C	●	C	●	D	●	A	C	●	●	C	A	D	C	●	●
42 Extend conclusions: political science	50	54	K	●	●	●	●	M	●	J	●	K	●	M	●	J	M	K	●	M	J	●	●
45 Make inference/prediction: economics	48	42	●	C	D	D	A	D	A	A	●	D	●	D	●	●	A	●	C	D	A	●	●
46 Make inference/prediction: economics	37	38	M	K	K	K	●	K	●	●	L	K	M	K	L	●	M	L	●	L	●	L	L
47 Make inference/prediction: political science	37	25	C	A	A	C	C	C	B	B	A	B	●	C	A	C	●	B	B	B	B	B	●
48 Interpret information in graphs: economics	63	79	●	L	●	●	●	M	●	M	●	●	●	●	●	●	●	●	J	L	●	●	●
49 Make inference/prediction: economics	48	42	○	B	D	D	A	B	●	B	●	●	●	A	●	●	B	D	●	B	A	A	●
50 Extend conclusions: economics	31	42	L	M	●	K	L	L	●	L	M	L	●	K	●	●	●	●	L	K	●	L	●



SOCIAL STUDIES (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	7	2	1	0	0	1	1	0	7	4	1	0	3	0	1	0	7	1	1	6	0	0	1	0	4	4	1	0	7	1	1	0	4	7	1	1	1	9
Number Tested = 24 Number Included =				50	51	48	52	32	26	48	54	28	86	42	76	20	82	26	48	40	30	32	28	38	42	84																	

Analyzing Information				12	53	49	75	33	17	58	58	25	92	42	75	17	83	17	50	33	25	25	25	42	50	92
1	Distinguish fact/opinion: political science	69	63	●	C	C	●	●	●	●	D	●	C	●	●	●	●	●	D	C	D	C	●	●		
3	Distinguish fact/opinion: education	56	42	●	B	A	D	A	D	●	●	A	D	A	D	A	●	A	B	●	B	●	●			
8	Recognize author's purpose: political science	70	46	●	K	M	●	J	●	●	K	●	M	●	J	K	K	●	M	●	●	●	●	K		
10	Recognize author's intent: economics	32	38	●	●	J	●	M	K	M	M	●	M	J	K	M	J	M	●	K	J	J	●			
12	Recognize author's purpose: political science	73	71	●	●	●	●	●	M	●	●	●	J	●	L	●	●	J	L	J	●	●	●			
13	Distinguish fact/opinion: economics	61	54	C	A	C	●	●	●	●	C	●	C	●	D	C	●	C	●	D	●	C	●			
14	Recognize author's purpose: education	44	42	●	J	●	K	J	L	●	J	J	J	●	L	●	J	●	K	J	L	J	●			
15	Distinguish fact/opinion: political science	47	54	B	C	C	D	●	D	●	●	●	●	●	●	●	C	●	D	C	C	●	●			
33	Recognize author's technique: sociology	52	46	●	B	C	●	●	D	●	●	C	B	●	B	C	B	C	B	B	B	●	●			
40	Recognize author's purpose: economics	43	42	L	●	M	K	●	K	●	M	●	●	●	M	●	●	K	L	L	K	L	M	●		
43	Recognize author's technique: economics	39	33	●	A	A	C	B	B	●	B	●	C	●	C	●	C	●	C	●	B	A	C	●		
44	Distinguish fact/opinion: economics	46	54	●	●	L	●	●	L	●	●	●	J	●	K	J	K	L	J	●	●	K	●			

Evaluating Information				12	53	50	58	25	25	50	67	17	83	58	92	25	75	33	42	33	8	50	33	42	25	92
2	Evaluate adequacy of information: history	60	63	●	K	●	●	●	L	●	●	●	●	K	●	M	●	K	K	●	K	●	●			
5	Judge source reliability: sociology	33	38	●	C	A	●	A	C	●	●	A	B	●	B	A	B	C	●	B	A	B	●			
6	Evaluate adequacy of information: education	61	46	L	L	L	K	M	M	●	●	●	L	●	M	K	●	●	K	K	●	●	●			
7	Evaluate adequacy of information: pol sci	67	46	B	C	A	B	C	B	●	●	●	A	●	●	●	C	B	C	B	C	B	●	A		
22	Evaluate adequacy of information: sociology	69	58	●	K	●	●	●	K	●	L	●	●	●	L	●	J	J	J	L	K	L	●			
24	Judge validity of conclusions: geography	51	54	●	K	J	K	●	M	●	●	●	J	●	K	K	K	K	●	K	●	K	●			
25	Evaluate adequacy of information: geography	52	63	●	C	C	●	●	●	D	●	●	D	A	●	●	●	D	●	C	●	A	●			
30	Evaluate adequacy of information: economics	59	63	●	●	K	●	●	M	●	M	●	●	●	M	M	●	K	●	K	●	L	●			
31	Evaluate adequacy of information: economics	57	54	●	●	D	●	●	●	●	A	●	C	●	C	A	C	A	●	C	●	A	●			
32	Evaluate adequacy of information: economics	46	38	L	L	J	L	●	L	●	K	●	L	●	●	J	K	J	●	●	L	K	●			
37	Judge validity of conclusions: sociology	42	46	C	A	●	C	●	B	●	●	●	B	●	C	●	B	A	A	●	A	C	●			
39	Evaluate adequacy of information: sociology	43	29	C	●	C	C	C	D	C	C	●	A	C	C	●	C	A	A	●	D	C	●			



SOCIAL STUDIES

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	50	90	38	68
Number Tested = 24		Number Included =		24			
	50	51	48	50	90	38	68

Interpreting Information	26	48	48	38	92	35	81
4 Make inference/prediction: economics		67	58	●	●	L	L
9 Make inference/prediction: history		59	75	●	●	A	●
11 Identify point of cartoon: political science		73	75	●	●	B	●
16 Make inference/prediction: political science		48	50	●	●	M	●
17 Interpret map information: geography		37	33	B	●	B	●
18 Interpret information in graphs: geography		49	46	J	●	K	●
19 Interpret information in graphs: geography		76	79	●	●	C	●
20 Draw conclusions from data: education		58	67	●	●	K	●
21 Make inference/prediction: economics		45	33	A	●	B	●
23 Interpret information in graphs: geography		61	54	B	●	●	●
26 Make inference/prediction: political science		37	38	K	L	●	●
27 Make inference/prediction: political science		41	46	C	●	A	●
28 Make inference/prediction: political science		48	38	J	●	K	●
29 Make inference/prediction: political science		40	33	C	●	D	●
34 Make inference/prediction: sociology		35	33	L	●	M	K
35 Make inference/prediction: political science		48	33	A	●	●	D
36 Make inference/prediction: political science		40	46	L	●	M	L
38 Make inference/prediction: political science		42	46	●	●	●	●
41 Make inference/prediction: economics		40	33	C	●	A	A
42 Extend conclusions: political science		50	54	K	●	●	●
45 Make inference/prediction: economics		48	42	C	●	●	●
46 Make inference/prediction: economics		37	38	●	●	M	●
47 Make inference/prediction: political science		37	25	●	●	C	●
48 Interpret information in graphs: economics		63	79	●	●	●	●
49 Make inference/prediction: economics		48	42	A	●	●	●
50 Extend conclusions: economics		31	42	L	L	●	●

%C = Percent Correct

Legend: ● = Correct Response ○ = No Response

* = Multiple Responses

Alpha = Incorrect Response



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SOCIAL STUDIES (cont.)

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		0
	6		6
	0		2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		24			
	50	51	48	50	90	38	68

Analyzing Information	12	53	49	58	92	33	50
1 Distinguish fact/opinion: political science		69	63	●	●	●	C
3 Distinguish fact/opinion: education		56	42	●	●	●	D
8 Recognize author's purpose: political science		70	46	●	M	K	K
10 Recognize author's intent: economics		32	38	M	●	●	●
12 Recognize author's purpose: political science		73	71	●	●	L	●
13 Distinguish fact/opinion: economics		61	54	●	●	D	●
14 Recognize author's purpose: education		44	42	●	●	L	●
15 Distinguish fact/opinion: political science		47	54	B	●	●	D
33 Recognize author's technique: sociology		52	46	B	●	B	●
40 Recognize author's purpose: economics		43	42	●	●	M	M
43 Recognize author's technique: economics		39	33	C	●	B	A
44 Distinguish fact/opinion: economics		46	54	K	●	K	●

Evaluating Information	12	53	50	67	83	50	58
2 Evaluate adequacy of information: history		60	63	●	K	●	M
5 Judge source reliability: sociology		33	38	C	●	●	A
6 Evaluate adequacy of information: education		61	46	●	●	K	L
7 Evaluate adequacy of information: pol sci		67	46	●	●	●	●
22 Evaluate adequacy of information: sociology		69	58	●	●	●	●
24 Judge validity of conclusions: geography		51	54	●	●	●	●
25 Evaluate adequacy of information: geography		52	63	A	●	●	●
30 Evaluate adequacy of information: economics		59	63	●	●	L	●
31 Evaluate adequacy of information: economics		57	54	●	●	C	A
32 Evaluate adequacy of information: economics		46	38	●	L	K	L
37 Judge validity of conclusions: sociology		42	46	B	●	B	●
39 Evaluate adequacy of information: sociology		43	29	D	●	A	●

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SCIENCE

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Number Tested = 24		Number Included =		23																										
	48	46	36	31	27			29	31	10	83	33	50	19	83	17	38	27	33	23	23	8	29	15						

Interpreting Information	19	48	39	21	32	21	21	16	79	32	58	21	84	11	63	53	26	26	32	11	37	26	
3 Make inference: physical science		66	52	D	C	○	D	●	C	●	D	●	A	A	D	●	●	A	●	A	●	●	D
4 Represent information in graphs: phys sci		49	30	L	K	○	M	●	M	●	L	L	●	●	M	L	K	M	K	M	L	K	●
6 Make inference: physical science		53	39	J	●	○	K	●	M	●	J	●	K	●	K	●	M	K	M	J	K	K	M
8 Make inference: physical science		51	35	●	●	○	M	M	M	M	M	●	L	●	L	J	●	●	J	L	J	●	J
10 Make inference: biological science		54	48	●	J	○	●	L	M	L	●	●	M	●	J	●	●	L	L	●	L	●	M
13 Draw conclusions from results: phys sci		56	35	B	B	○	D	●	●	●	●	●	A	●	D	●	A	A	B	B	A	B	B
14 Draw conclusions from results: phys sci		48	35	L	M	○	L	K	M	●	●	●	M	K	L	●	K	●	●	●	M	K	M
21 Make inference: biological science		39	30	B	●	○	C	B	C	●	B	B	●	●	C	●	●	B	B	B	C	B	B
22 Draw conclusions from results: bio sci		48	48	●	K	○	●	K	M	●	K	M	J	●	K	●	●	M	M	●	M	K	M
23 Make inference: biological science		47	35	D	C	○	A	C	C	D	●	A	D	●	A	C	C	●	●	D	●	●	A
26 Draw conclusions from results: bio sci		45	43	K	●	○	J	K	●	●	L	J	●	●	K	●	L	J	L	L	K	K	●
28 Extend conclusions: physical science		44	43	J	J	○	J	J	M	●	●	●	L	J	L	●	●	●	M	L	M	●	L
36 Draw conclusions from results: bio sci		46	35	●	K	○	L	K	M	●	K	●	M	●	K	L	●	K	M	K	K	K	K
37 Draw conclusions from results: bio sci		46	35	A	B	○	D	B	●	●	A	●	B	●	B	D	A	●	●	D	D	B	A
38 Make prediction from data: biological science		54	48	L	M	○	M	L	M	●	●	●	M	●	M	●	●	J	J	●	M	●	M
40 Make prediction from data: biological science		49	57	J	●	○	●	M	M	●	K	M	J	●	●	●	●	●	M	J	●	K	●
44 Make prediction from data: biological science		46	43	K	M	○	●	M	M	●	J	J	●	●	●	●	●	J	●	M	M	K	M
47 Draw conclusions from results: bio sci		37	26	C	●	○	C	B	C	C	A	●	A	●	A	C	C	B	C	●	B	B	●
48 Represent data by graphs: biological science		32	26	K	L	○	M	M	M	●	L	K	M	●	M	L	M	M	K	K	M	●	●



SCIENCE (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Number Tested = 24		Number Included =		23																								
	48	46	36	31	27				29	31	10	83	33	50	19	83	17	38	27	33	23	23	8	29	15			

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Analyzing/Evaluating Information				11	48	39	36	36	36	45	18	73	55	64	18	82	18	36	18	36	18	36	18	27	9	27	9		
1	Evaluate adequacy of information: bio sci	62	52	D	●	○	B	A	●	●	●	●	B	●	●	A	D	●	A	B	A	A	●						
5	Distinguish hyps/obs/concl: bio sci	60	39	●	D	○	●	D	C	●	C	●	D	●	●	●	C	C	C	C	C	B	B						
7	Evaluate accuracy of information: phys sci	38	48	C	D	○	D	●	C	●	C	D	C	●	A	●	●	D	C	●	●	●	C						
9	Evaluate adequacy of information: bio sci	43	35	A	●	○	C	●	C	B	●	●	A	●	B	B	A	B	●	A	B	B	B						
11	Select best evidence: physical science	51	48	●	C	○	●	B	C	●	●	●	D	●	C	●	B	●	B	C	D	B	C						
16	Distinguish hyps/obs/concl: phys sci	71	52	●	●	○	J	M	M	●	●	●	L	●	J	●	L	●	M	M	L	●	L						
18	Evaluate adequacy of information: phys sci	51	30	J	M	○	●	●	M	K	M	●	M	J	K	M	J	●	K	●	K	K	M						
25	Distinguish hyps/obs/concl: bio sci	44	30	C	B	○	D	●	C	●	●	D	●	●	C	C	D	C	B	B	B	C	B						
29	Select best evidence: physical science	31	22	A	●	○	B	A	C	●	A	●	C	A	B	C	C	B	C	●	C	B	B						
31	Evaluate adequacy of information: phys sci	49	35	C	D	○	C	●	C	A	●	D	D	●	C	D	●	A	●	C	C	●	A						
42	Select most accurate information: bio sci	30	35	●	K	○	●	J	●	●	●	J	K	●	●	K	K	J	K	J	L	K	K	L					



SCIENCE (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1071	1074	1099	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119				
Number Tested = 24		Number Included =		23																						
	48	46	36	31	27	29	31	10	83	33	50	19	83	17	38	27	33	23	23	8	29	15				

Analyzing Scientific Investigations	18	43	31	39	17	33	33	0	94	22	33	17	83	22	11	6	39	22	11	6	22	6	
2 Select best procedure: physical science	42	17	K	●	○	L	K	M	●	K	M	M	●	K	K	L	L	L	L	K	K	K	K
12 Identify experimental variable: phys sci	55	43	K	K	○	●	●	M	●	●	●	K	●	J	●	J	M	●	J	M	K	J	J
15 Judge appropriateness of procedure: phys sci	29	22	B	A	○	B	C	C	●	A	A	B	●	●	B	C	C	C	C	C	B	A	A
17 Select best procedure: physical science	49	30	●	C	○	○	A	C	●	B	B	A	●	A	●	B	●	C	B	C	B	B	B
19 Identify rationale for procedure: bio sci	54	39	●	A	○	●	●	C	●	C	●	D	●	D	A	C	C	A	●	A	●	A	A
20 Identify rationale for procedure: bio sci	52	22	L	L	○	M	M	M	●	●	L	K	M	K	L	L	●	L	L	K	K	M	M
24 Identify purpose of experiment: bio sci	53	30	K	M	○	M	J	M	●	K	M	K	●	M	K	M	K	●	M	M	●	K	K
27 Identify research question: physical science	30	22	●	C	○	B	B	C	●	C	●	B	B	A	B	B	●	B	B	C	B	A	A
30 Judge appropriateness of procedure: phys sci	39	35	K	K	○	K	●	M	●	●	J	J	●	M	K	M	●	J	K	K	K	M	M
32 Judge appropriateness of procedure: phys sci	29	26	K	K	○	D	M	M	●	M	K	L	●	L	L	K	K	●	K	K	K	K	K
33 Judge appropriateness of procedure: phys sci	48	52	●	A	○	D	A	C	●	●	C	●	●	●	A	A	A	D	C	●	●	D	D
34 Identify dependent variable: bio sci	31	22	K	●	○	●	●	M	J	K	J	J	K	J	K	K	M	K	J	M	K	J	J
35 Identify rationale for procedure: bio sci	40	35	●	●	○	C	●	C	●	A	A	B	●	C	C	B	●	C	C	C	B	C	C
39 Identify rationale for procedure: bio sci	53	39	●	B	○	C	●	C	●	C	●	●	●	B	C	C	●	B	C	D	B	B	B
41 Identify weakness of procedure: bio sci	41	26	C	A	○	B	B	C	●	B	●	B	●	●	A	B	●	B	B	B	B	A	A
43 Identify rationale for procedure: bio sci	44	26	D	C	○	●	C	C	●	B	D	C	●	●	B	C	D	D	●	B	B	B	B
45 Identify aspects of investigation: bio sci	43	17	A	A	○	B	B	C	●	C	C	C	●	B	C	●	C	A	B	A	B	A	A
46 Identify rationale for procedure: bio sci	44	48	●	L	○	●	L	M	●	M	●	●	●	L	L	L	L	●	L	L	●	●	●



SCIENCE

1							
0						1	
5						0	
2						6	
						1	
						0	
						6	
						2	
							1
							0
							6
							2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class				
Number Tested = 24		Number Included =		23			
	48	46	36	35	96	33	50

Interpreting Information	19	48	39	42	100	42	47
3 Make inference: physical science		66	52	●	●	●	●
4 Represent information in graphs: phys sci		49	30	L	●	L	●
6 Make inference: physical science		53	39	●	●	M	●
8 Make inference: physical science		51	35	*	●	L	M
10 Make inference: biological science		54	48	●	●	M	J
13 Draw conclusions from results: phys sci		56	35	B	●	B	D
14 Draw conclusions from results: phys sci		48	35	K	●	K	K
21 Make inference: biological science		39	30	○	●	A	C
22 Draw conclusions from results: bio sci		48	48	●	●	●	●
23 Make inference: biological science		47	35	●	●	●	C
26 Draw conclusions from results: bio sci		45	43	L	●	●	●
28 Extend conclusions: physical science		44	43	M	●	●	●
36 Draw conclusions from results: bio sci		46	35	●	●	●	L
37 Draw conclusions from results: bio sci		46	35	A	●	D	●
38 Make prediction from data: biological science		54	48	●	●	J	●
40 Make prediction from data: biological science		49	57	K	●	●	●
44 Make prediction from data: biological science		46	43	K	●	●	J
47 Draw conclusions from results: bio sci		37	26	B	●	B	C
48 Represent data by graphs: biological science		32	26	●	●	L	K



SCIENCE (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		35	96	33	50
		48	46	36			

Analyzing/Evaluating Information		11	48	39	36	91	27	73
1	Evaluate adequacy of information: bio sci	62	52	B	●	●	●	
5	Distinguish hyps/obs/concl: bio sci	60	39	B	C	●	●	
7	Evaluate accuracy of information: phys sci	38	48	●	●	C	●	
9	Evaluate adequacy of information: bio sci	43	35	B	●	B	●	
11	Select best evidence: physical science	51	48	C	●	●	●	
16	Distinguish hyps/obs/concl: phys sci	71	52	●	●	J	●	
18	Evaluate adequacy of information: phys sci	51	30	●	●	K	J	
25	Distinguish hyps/obs/concl: bio sci	44	30	B	●	B	●	
29	Select best evidence: physical science	31	22	B	●	B	C	
31	Evaluate adequacy of information: phys sci	49	35	●	●	A	C	
42	Select most accurate information: bio sci	30	35	J	●	K	●	

%C = Percent Correct

Legend: ● = Correct Response ○ = No Response

* = Multiple Responses

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SCIENCE (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		23			
	48	46	36	35	96	33	50

1			
0		1	
5		0	
2		6	
		1	
	1		1
	0		
	6		
	0		
			1
			0
			6
			2

Analyzing Scientific Investigations	18	43	31	28	94	28	39
2 Select best procedure: physical science		42	17	L	●	M	L
12 Identify experimental variable: phys sci		55	43	J	●	●	K
15 Judge appropriateness of procedure: phys sci		29	22	C	●	●	C
17 Select best procedure: physical science		49	30	○	●	C	●
19 Identify rationale for procedure: bio sci		54	39	C	●	D	C
20 Identify rationale for procedure: bio sci		52	22	●	●	M	L
24 Identify purpose of experiment: bio sci		53	30	●	●	M	●
27 Identify research question: physical science		30	22	B	●	A	A
30 Judge appropriateness of procedure: phys sci		39	35	●	●	●	M
32 Judge appropriateness of procedure: phys sci		29	26	L	●	M	●
33 Judge appropriateness of procedure: phys sci		48	52	●	●	●	●
34 Identify dependent variable: bio sci		31	22	J	K	●	●
35 Identify rationale for procedure: bio sci		40	35	●	●	C	C
39 Identify rationale for procedure: bio sci		53	39	B	●	B	●
41 Identify weakness of procedure: bio sci		41	26	C	●	B	B
43 Identify rationale for procedure: bio sci		44	26	C	●	D	C
45 Identify aspects of investigation: bio sci		43	17	A	●	A	C
46 Identify rationale for procedure: bio sci		44	48	L	●	M	●



SOURCES OF INFORMATION

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	109	1007	1099	1079	1094	1074	Hicks	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24	Number Included =		24	55	33	30	45	45	28	83	53	75	28	75	5	55	18	33	33	23	35	43	78

Using Sources	14	57	47	50	29	29	50	57	14	86	57	93	29	79	0	57	7	43	21	21	43	71	79
6 Interpret information: library sources	62	58	L	K	●	●	L	●	●	●	●	●	K	●	L	●	J	J	L	K	●	●	●
8 Interpret information: dictionary	58	54	K	●	K	●	●	M	●	M	●	●	●	●	K	●	K	●	M	M	K	●	●
9 Identify information: dictionary	57	46	C	A	●	C	C	D	●	●	●	●	C	●	C	D	C	●	C	●	●	D	●
10 Identify appropriate use: library sources	70	58	●	M	●	●	L	M	●	●	●	●	J	L	J	●	●	M	●	J	●	●	●
11 Identify appropriate use: library sources	73	67	●	●	●	●	●	D	●	C	●	●	B	●	D	●	B	●	C	C	●	●	●
17 Interpret information: maps	69	50	C	●	C	D	D	D	●	C	●	●	A	●	D	●	C	●	D	C	●	●	●
21 Interpret information: dictionary	56	25	●	C	A	C	●	A	C	●	●	●	A	C	D	C	A	D	A	●	A	C	A
22 Interpret information: dictionary	52	29	J	K	K	K	●	J	●	●	●	●	●	●	K	K	K	K	K	M	J	K	M
23 Interpret information: dictionary	56	50	D	D	C	C	●	A	●	C	●	●	A	D	C	●	A	●	A	●	C	●	●
26 Identify appropriate use: library sources	59	54	●	K	J	●	●	J	●	●	●	●	L	●	K	J	L	J	L	J	K	D	●
31 Identify appropriate use: research methods	59	54	●	B	A	●	●	A	●	D	●	●	●	●	B	●	B	A	●	B	D	●	●
33 Identify information: atlas	51	50	●	D	D	●	●	A	●	B	●	●	D	●	A	●	A	●	A	B	●	●	●
36 Identify information: atlas	44	38	●	L	L	K	M	●	●	●	●	●	K	●	L	K	L	K	●	L	L	K	●
39 Select appropriate use: maps	32	25	B	●	A	B	B	A	B	●	●	A	●	●	A	B	B	D	B	B	A	●	B



SOURCES OF INFORMATION (cont.)

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1072	1001	1109	1007	1099	1079	1094	Harris	1019	1022	1025	1030	1036	1076	1600	1071	1044	1047	1119	
Number Tested = 24		Number Included =		24																			
	40	55	44	55	33	30	45	45	28	83	53	75	28	75	5	55	18	33	33	23	35	43	78

Evaluating Sources	26	54	43	58	35	31	42	38	35	81	50	65	27	73	8	54	23	27	38	23	31	27	77
1 Identify best source: miscellaneous sources	70	63	●	●	●	●	B	D	●	●	D	B	●	C	●	●	B	●	B	B	●	●	
2 Identify best source: miscellaneous sources	65	67	J	●	●	●	L	M	●	●	●	M	●	●	J	●	M	M	●	●	●	●	
3 Identify best source: almanac	45	21	●	●	A	A	B	D	D	A	A	A	A	D	B	D	D	●	●	B	A	●	
4 Identify best strategy: research methods	57	54	●	K	K	K	●	●	●	●	●	L	●	J	●	●	K	●	L	L	L	●	
5 Identify best source: encyclopedia	42	21	●	D	B	B	A	D	B	B	●	B	B	B	●	B	●	●	D	A	D	B	
7 Identify best source: miscellaneous sources	64	29	●	A	A	C	B	●	●	●	C	●	B	B	C	B	C	C	B	C	●	●	
12 Identify best source: miscellaneous sources	59	42	●	L	J	K	●	●	L	L	●	J	●	K	L	K	K	●	L	●	L	●	
13 Identify best source: miscellaneous sources	56	33	●	B	D	D	●	D	●	C	●	D	C	C	●	●	●	C	●	C	C	D	
14 Identify best source: miscellaneous sources	70	54	●	M	K	K	●	M	●	K	●	K	●	K	●	●	M	K	K	●	●	●	
15 Identify best source: atlas	39	38	A	●	●	●	●	D	●	●	A	A	C	●	C	A	D	C	A	C	C	●	
16 Identify best source: miscellaneous sources	44	46	K	L	L	L	●	●	●	L	●	L	●	J	●	K	J	K	●	J	J	J	
18 Identify best source: maps	60	38	K	●	K	M	K	M	●	K	L	K	●	K	K	K	K	K	●	L	●	●	
19 Identify best source: miscellaneous sources	65	71	A	●	●	●	●	D	●	●	●	B	●	●	●	●	●	●	B	B	B	●	
20 Identify best source: encyclopedia	57	46	L	●	●	L	L	●	●	K	●	●	J	J	J	J	●	K	L	K	K	●	
24 Identify best source: library sources	39	38	M	●	M	●	M	●	●	L	●	K	●	L	L	L	●	M	K	L	L	●	
25 Identify best source: atlas	52	29	B	C	C	●	B	A	●	C	C	●	●	A	●	○	C	B	C	B	B	A	
27 Identify best source: miscellaneous sources	57	58	●	C	●	D	C	●	●	●	●	B	●	B	●	B	B	B	●	●	D	●	
28 Identify best source: miscellaneous sources	59	50	●	J	M	●	J	J	●	●	●	●	●	●	M	●	M	M	●	K	J	J	●
29 Identify best source: miscellaneous sources	46	29	A	C	C	C	C	A	●	●	A	A	D	A	●	A	D	A	C	●	●	●	
30 Identify best source: miscellaneous sources	53	38	●	M	●	J	M	J	●	●	●	M	L	L	J	L	●	●	L	*	J	●	
32 Identify best source: miscellaneous sources	58	58	●	L	L	●	K	J	●	●	●	●	●	L	●	L	L	●	L	●	K	●	
34 Identify best source: miscellaneous sources	57	46	●	L	K	●	M	●	L	●	●	●	●	K	M	M	●	L	L	K	K	●	
35 Identify best source: maps	40	38	●	B	B	B	●	A	●	●	B	●	●	B	B	B	B	A	B	●	●	B	
37 Identify best source: library sources	44	33	○	●	D	●	C	A	●	A	D	D	●	D	●	A	D	●	A	●	C	D	
38 Identify best source: miscellaneous sources	65	42	●	J	J	●	●	J	●	●	●	J	●	K	●	K	J	J	L	J	K	●	
40 Identify best source: dictionary	35	29	K	K	●	K	●	●	M	K	●	●	●	L	M	M	L	K	M	M	K	●	

%C = Percent Correct

Legend: ● = Correct Response ○ = No Response

* = Multiple Responses

Alpha = Incorrect Response



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SOURCES OF INFORMATION

Item No.	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Number Tested = 24		Number Included =		24			
	40	55	44	50	75	25	43

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Using Sources								
		14	57	47	36	71	36	71
6	Interpret information: library sources		62	58	L	●	●	●
8	Interpret information: dictionary		58	54	J	●	●	M
9	Identify information: dictionary		57	46	C	●	C	●
10	Identify appropriate use: library sources		70	58	J	●	J	●
11	Identify appropriate use: library sources		73	67	●	●	B	●
17	Interpret information: maps		69	50	●	●	C	●
21	Interpret information: dictionary		56	25	●	C	D	A
22	Interpret information: dictionary		52	29	J	J	K	●
23	Interpret information: dictionary		56	50	●	●	●	●
26	Identify appropriate use: library sources		59	54	●	●	●	●
31	Identify appropriate use: research methods		59	54	A	B	●	●
33	Identify information: atlas		51	50	B	A	A	●
36	Identify information: atlas		44	38	L	●	M	M
39	Select appropriate use: maps		32	25	B	●	B	A



SOURCES OF INFORMATION (cont.)

1			
0		1	
5		0	
2		6	
		1	
	1		
	0		
	6		
	0		
			1
			0
			6
			2

Item No.	No. Items	Avg. %C Nation	Avg. %C Class
Number Tested = 24		Number Included = 24	
	40	55	44
	50	75	25
			43

Item No.	Description	No. Items	Avg. %C Nation	Avg. %C Class	1	0	5	2
Evaluating Sources								
		26	54	43	58	77	19	27
1	Identify best source: miscellaneous sources		70	63	●	●	C	●
2	Identify best source: miscellaneous sources		65	67	●	●	J	●
3	Identify best source: almanac		45	21	D	A	D	B
4	Identify best strategy: research methods		57	54	●	●	L	J
5	Identify best source: encyclopedia		42	21	A	B	A	D
7	Identify best source: miscellaneous sources		64	29	B	C	B	C
12	Identify best source: miscellaneous sources		59	42	●	●	L	L
13	Identify best source: miscellaneous sources		56	33	B	B	D	C
14	Identify best source: miscellaneous sources		70	54	●	●	●	J
15	Identify best source: atlas		39	38	●	●	A	A
16	Identify best source: miscellaneous sources		44	46	●	●	●	●
18	Identify best source: maps		60	38	●	●	●	L
19	Identify best source: miscellaneous sources		65	71	●	●	D	●
20	Identify best source: encyclopedia		57	46	●	●	K	●
24	Identify best source: library sources		39	38	K	●	L	K
25	Identify best source: atlas		52	29	●	●	A	C
27	Identify best source: miscellaneous sources		57	58	●	●	B	●
28	Identify best source: miscellaneous sources		59	50	●	●	M	J
29	Identify best source: miscellaneous sources		46	29	C	●	A	C
30	Identify best source: miscellaneous sources		53	38	J	●	L	M
32	Identify best source: miscellaneous sources		58	58	●	●	●	●
34	Identify best source: miscellaneous sources		57	46	●	●	L	L
35	Identify best source: maps		40	38	B	●	A	B
37	Identify best source: library sources		44	33	A	D	●	A
38	Identify best source: miscellaneous sources		65	42	L	●	L	J
40	Identify best source: dictionary		35	29	L	M	K	M

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