

ASSESSING THE CRITICAL THINKING ISLO

SPRING 2013

Many thanks to the faculty who participated in this assessment, to the deans for lending their support, and to Katie Galvin, Anjelica Gacutan, and David Ulate in the Office of Research for creating the online spreadsheets, and for tabulating, formatting and presenting the data.

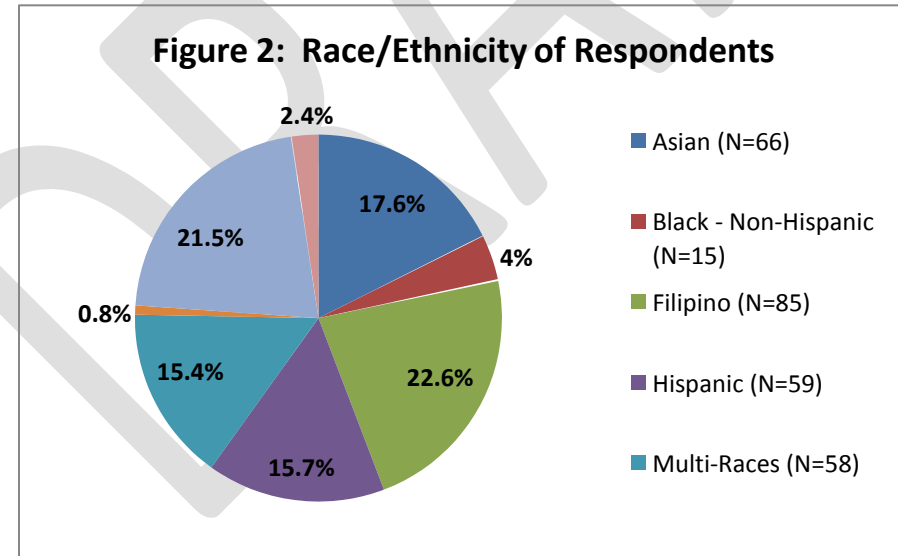
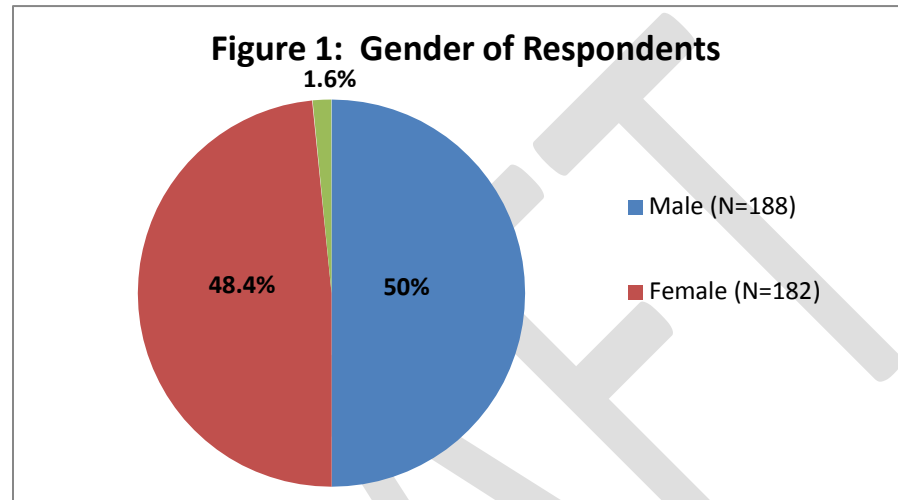
Business (22%): Accounting; Business; Business, Computers, and Management; Early Childhood Education

Language Arts (22%): English Composition, Communication Studies (2); Literature

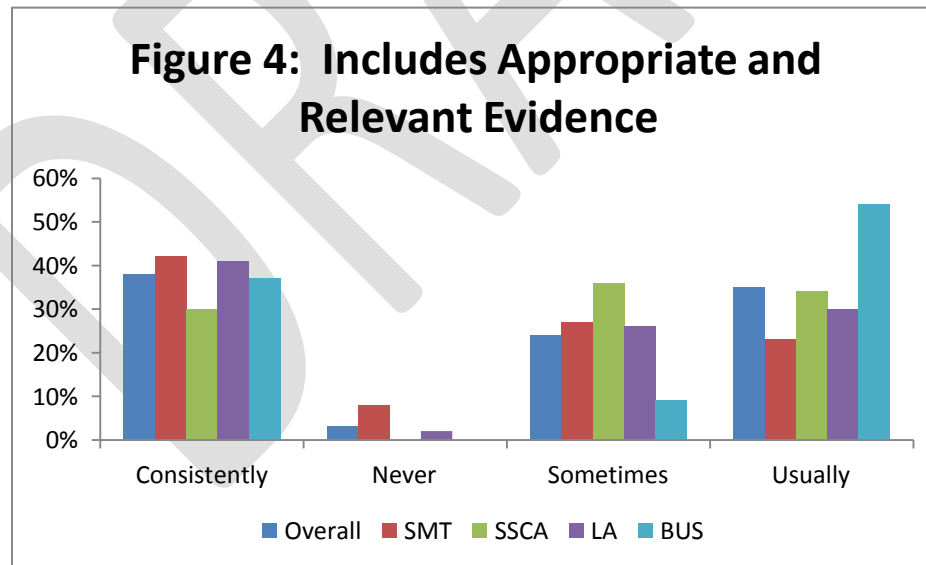
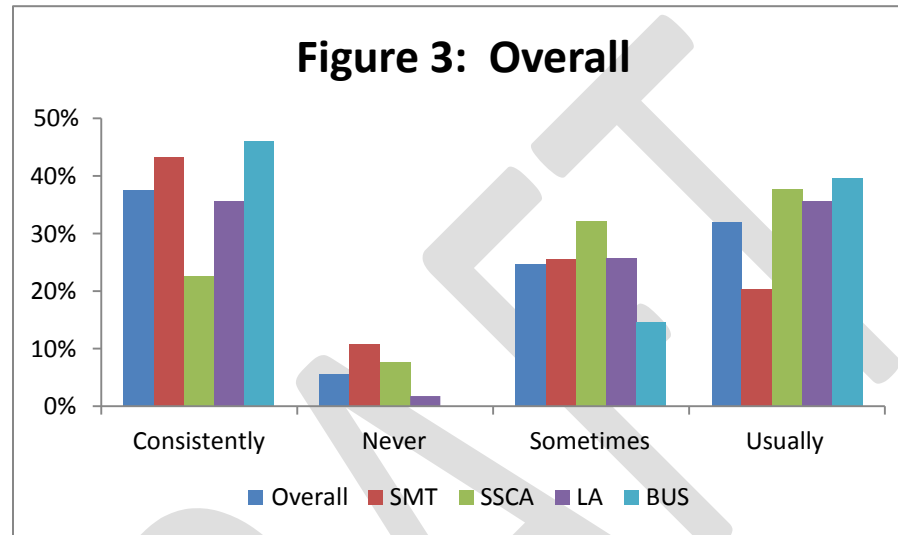
Science, Math, & Technology (28%): Astronomy, Chemistry, Health Science, Mathematics (2)

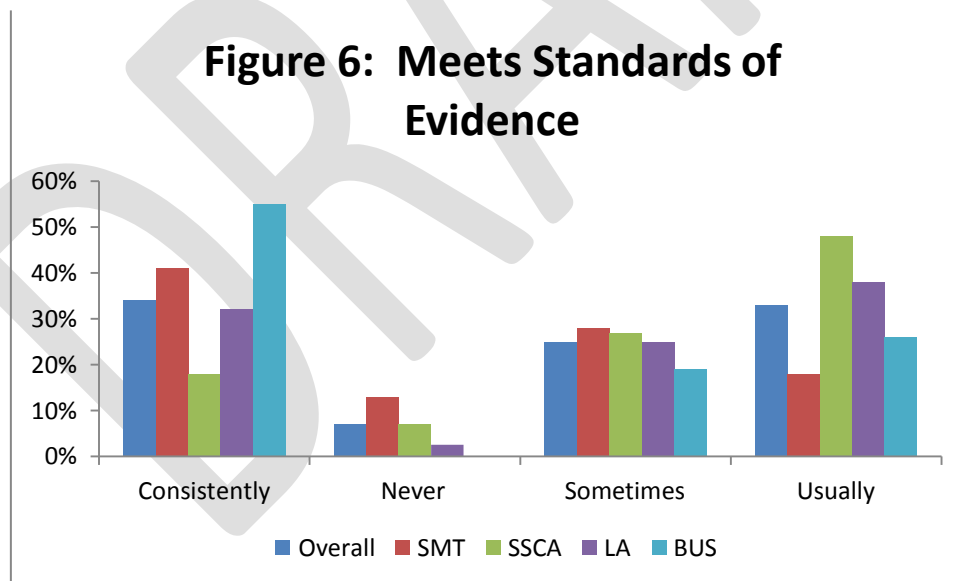
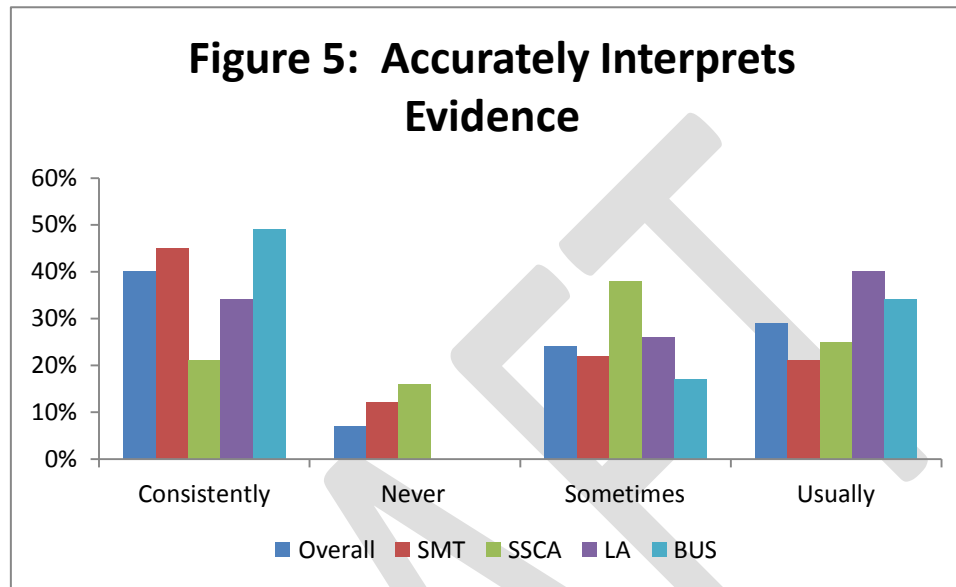
Social Sciences/ Creative Arts (28%): Administration of Justice, Art; History; Music; Psychology

Student Characteristics of Respondents

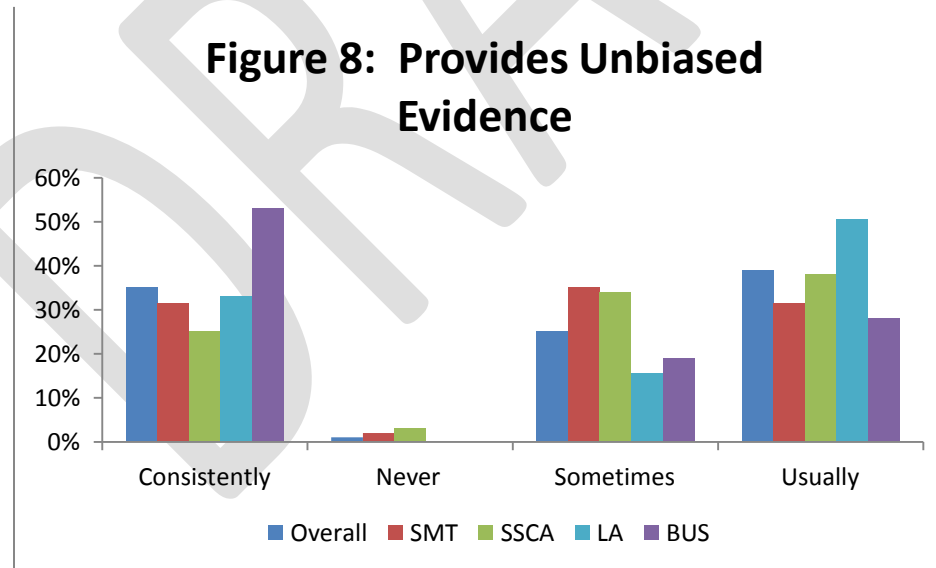
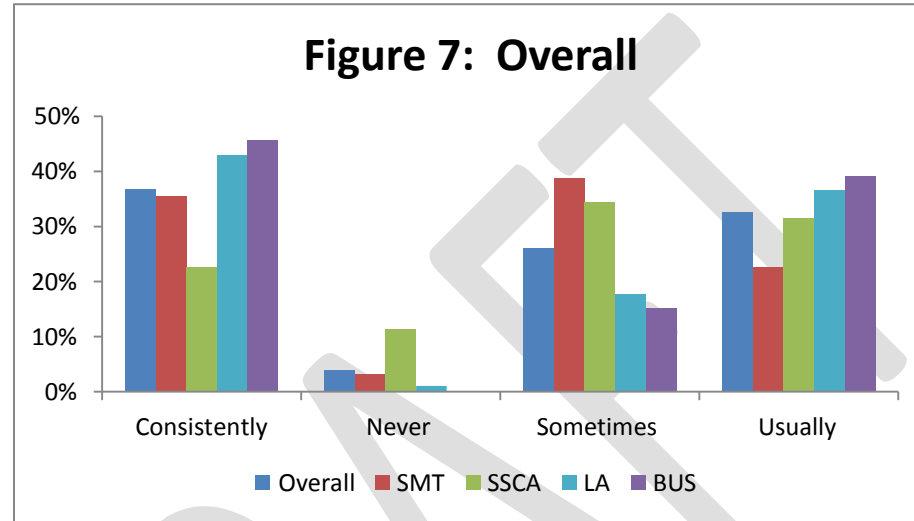


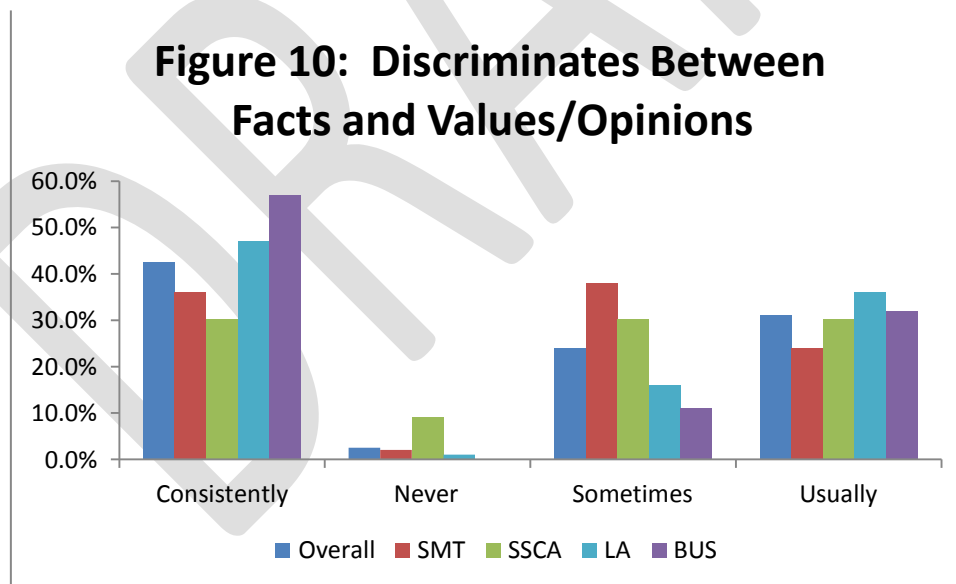
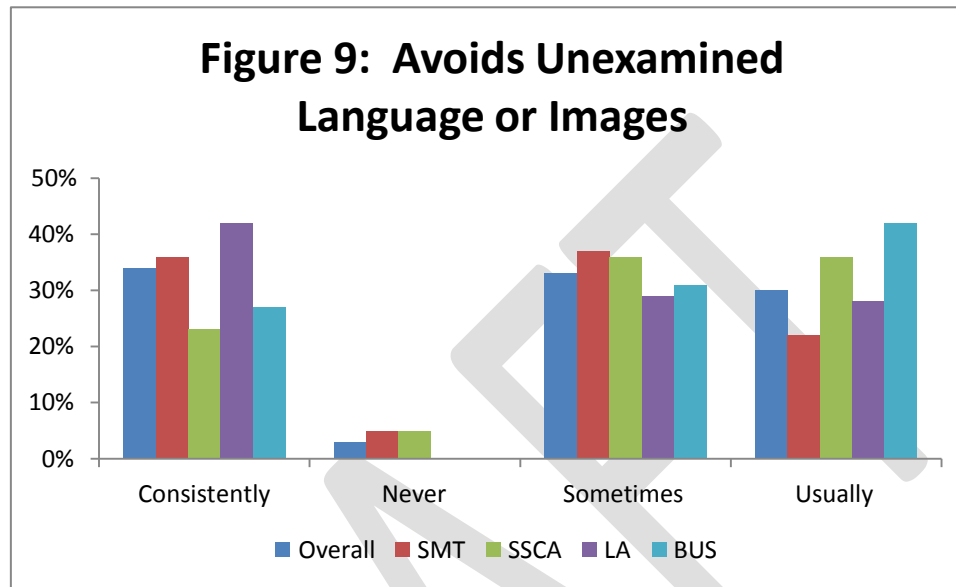
Supports Claims with Evidence

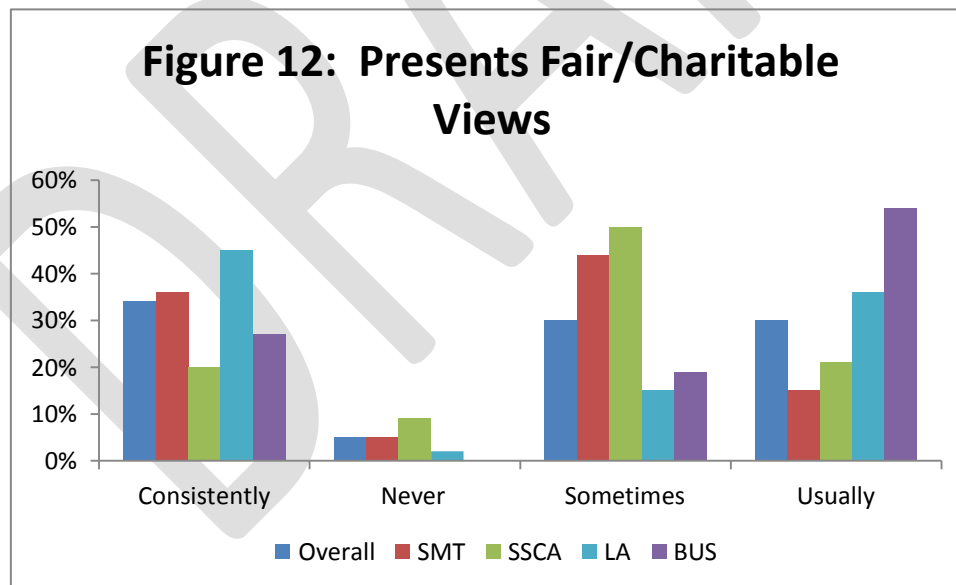
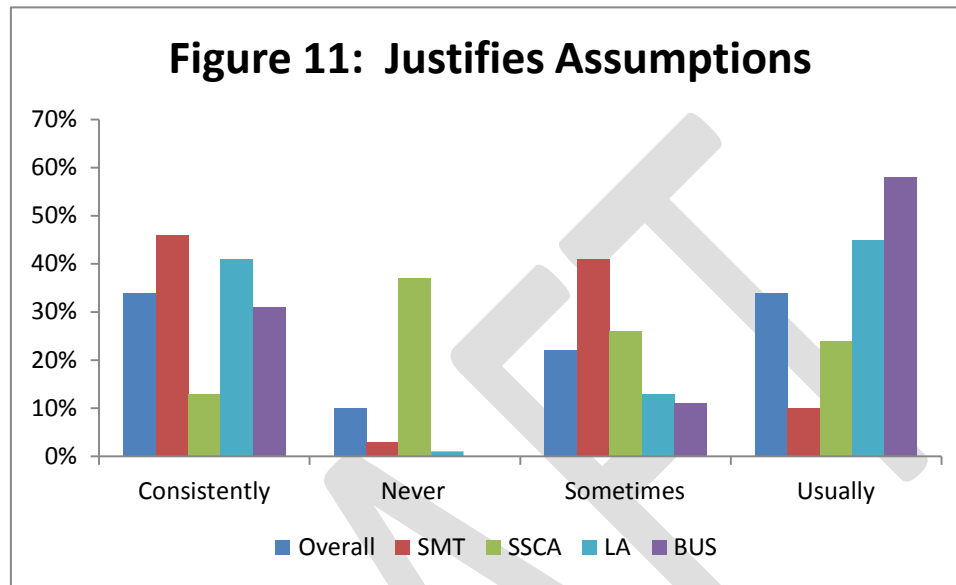


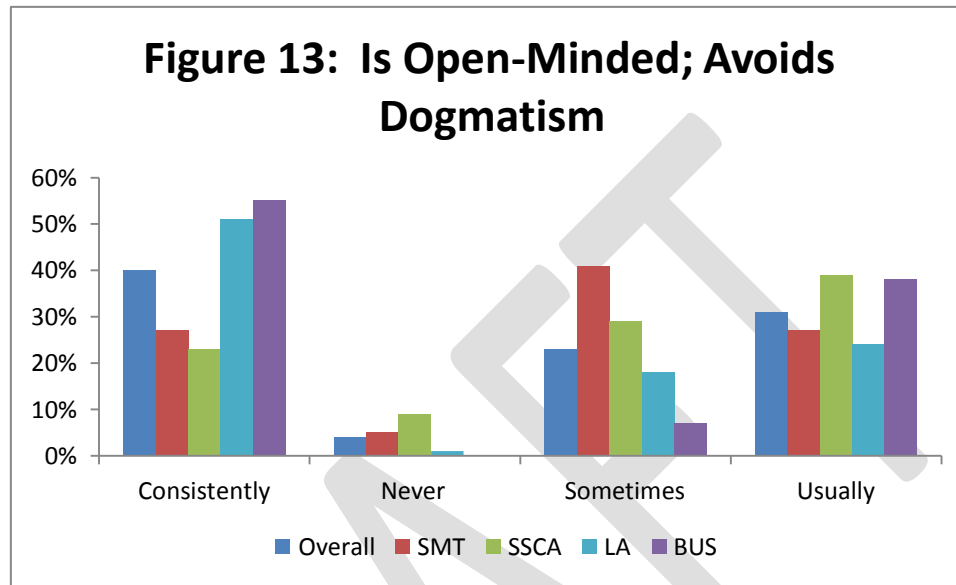


Responsiveness to Bias

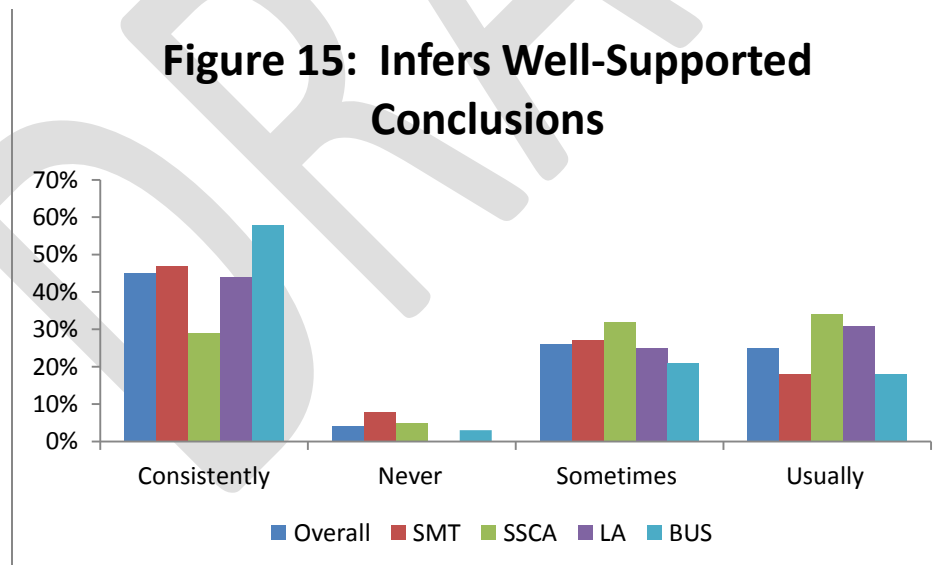
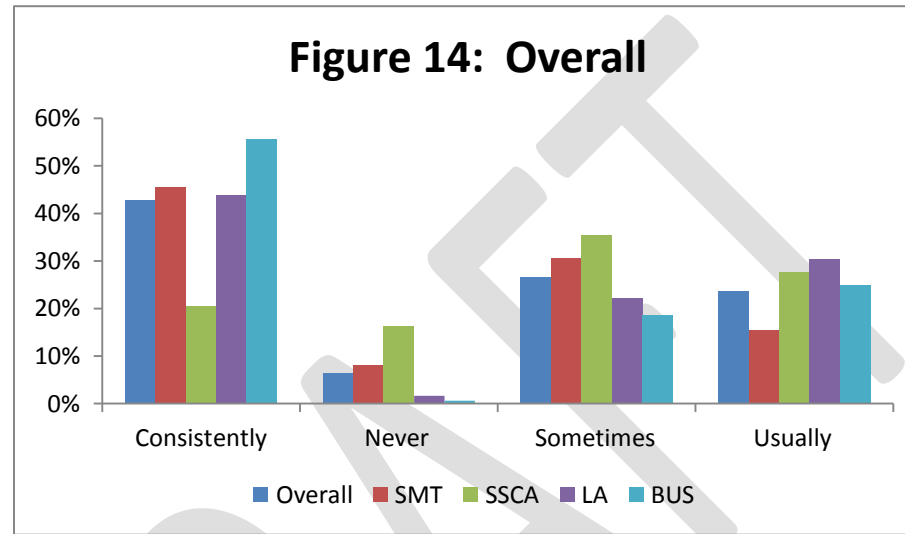


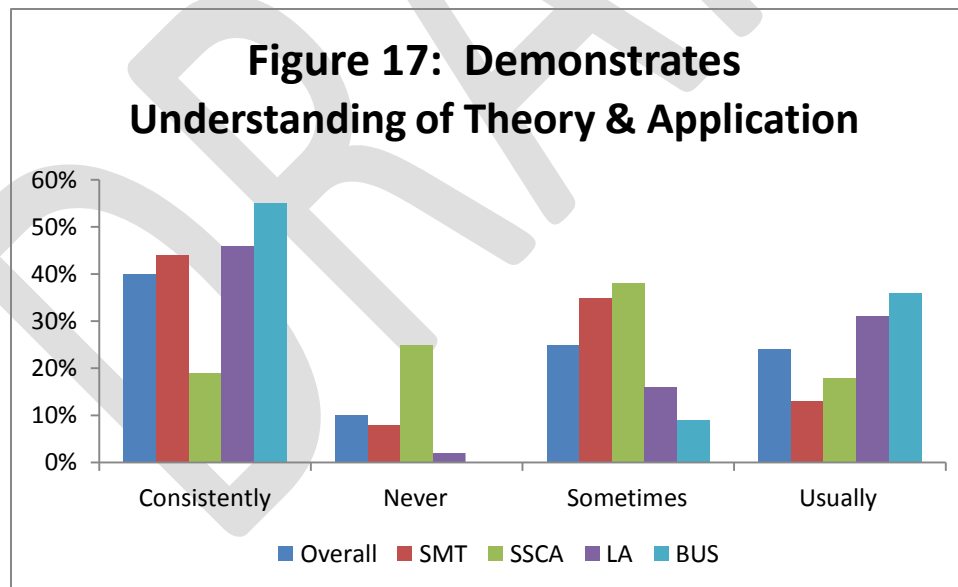
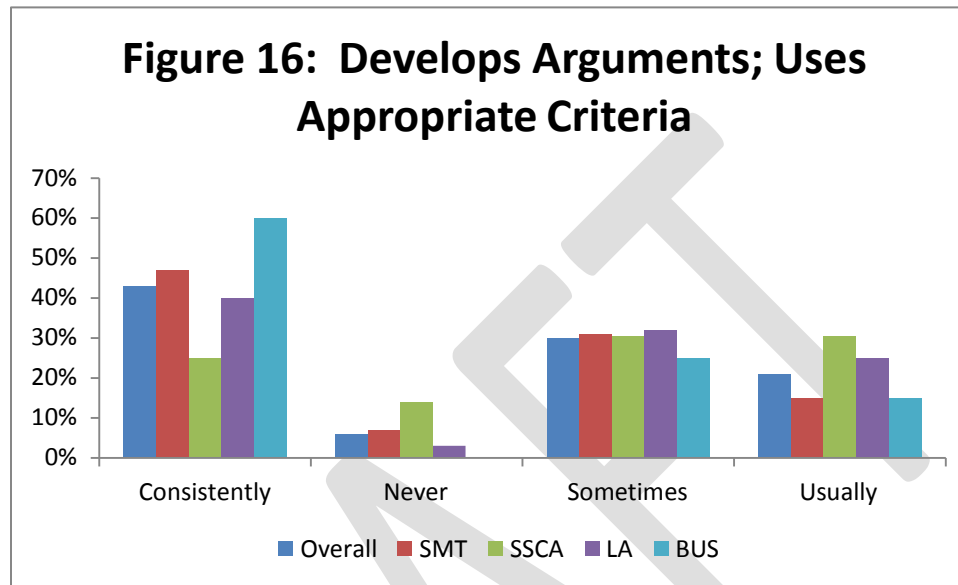


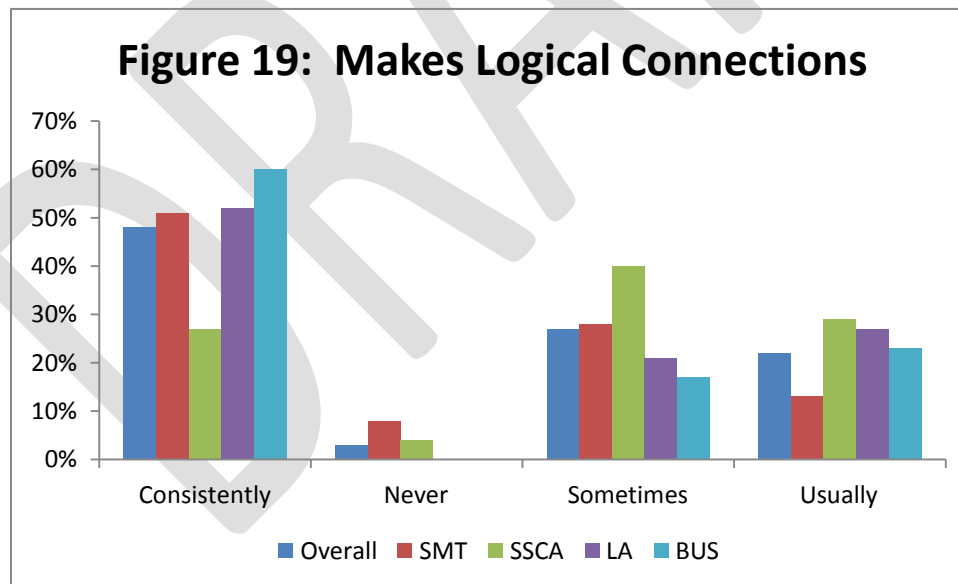
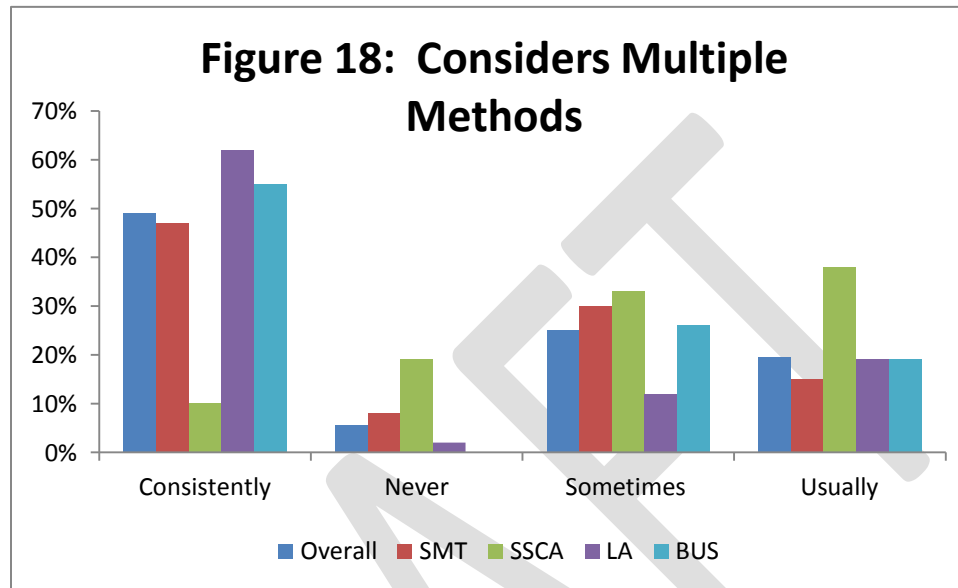


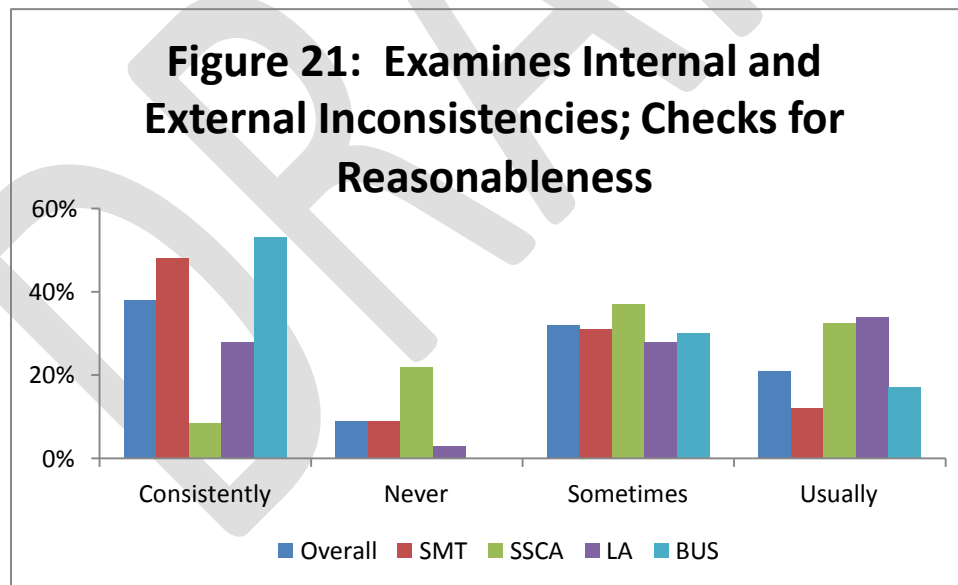
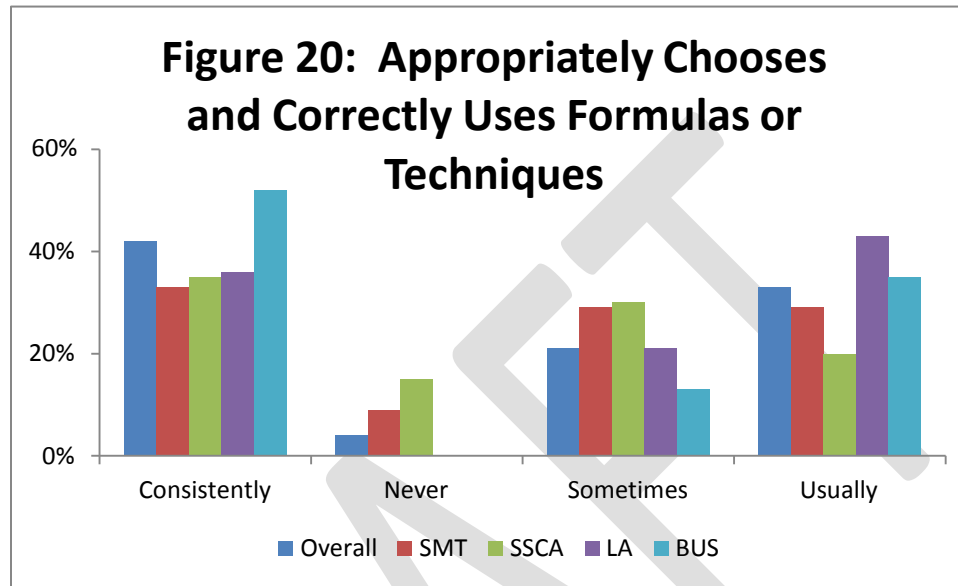


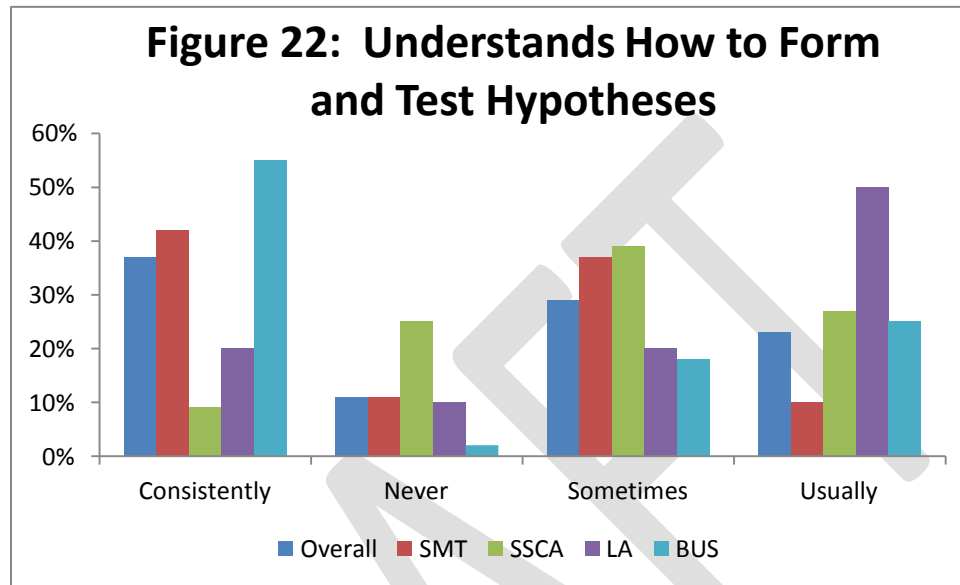
Accurate and Logical Analysis











Appendix – Data Tables

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Table 3: Overall for Supports Claims with Evidence

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	351	38%	132	43%	45	23%	82	36%	92	46%
Never	52	6%	33	11%	15	8%	4	2%	0	0%
Sometimes	230	25%	78	26%	64	32%	59	26%	29	15%
Usually	298	32%	62	20%	75	38%	82	36%	79	40%
Sometimes/Usually	3	0%	0	0%	0	0%	3	1%	0	0%
Not Measured	502		115		101		100		187	
N (excluding not measured)	935	100%	305	100%	199	100%	230	100%	200	100%

Table 4: Includes evidence that is appropriate and relevant

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	118	38%	39	42%	17	30%	34	41%	28	37%
Never	9	3%	7	8%	0	0%	2	2%	0	0%
Sometimes	74	24%	25	27%	20	36%	22	26%	7	9%
Sometimes/Usually	1	0%	0	0%	0	0%	1	1%	0	0%
Usually	106	35%	21	23%	19	34%	25	30%	41	54%
Not Measured	171		48		44		26		53	
N (excluding not measured)	308	100%	92	100%	56	100%	84	100%	76	100%

Table 5: Accurately interprets evidence such as quotes, graphics, statistics, etc.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	129	40%	55	45%	12	21%	24	34%	38	49%
Never	23	7%	14	12%	9	16%	0	0%	0	0%
Sometimes	79	24%	27	22%	21	38%	18	26%	13	17%
Usually	93	29%	25	21%	14	25%	28	40%	26	34%
Not Measured	155		19		44		40		52	
N (excluding not measured)	324	100%	121	100%	56	100%	70	100%	77	100%

Table 6: Meets standards of evidence such as timeliness, accuracy, relevance and sufficiency.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	104	34%	38	41%	16	18%	24	32%	26	55%
Never	20	7%	12	13%	6	7%	2	2.5%	0	0%
Sometimes	77	25%	26	28%	23	27%	19	25%	9	19%
Sometimes/Usually	2	1%	0	0%	0	0%	2	2.5%	0	0%
Usually	99	33%	16	18%	42	48%	29	38%	12	26%
Not Measured	176		48		13		34		82	
N (excluding not measured)	303	100%	92	100%	87	100%	76	100%	47	100%

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Table 7: Overall for Responsiveness to Bias; Fair Minded

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	497	37%	110	35%	74	23%	214	43%	99	46%
Never	52	4%	10	3%	37	11%	5	1%	0	0%
Sometimes	353	26%	120	39%	112	34%	88	18%	33	15%
Usually	440	33%	70	23%	103	32%	182	37%	85	39%
Sometimes/Usually	9	1%	0	0%	0	0%	9	2%	0	0%
Not Measured	1523		530		274		162		557	
N (excluding not measured)	1351	100%	310	100%	326	100%	498	100%	217	100%

Table 8: Provides unbiased selection, interpretation, and presentation of evidence.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	86	35%	20	31.5%	14	25%	27	33%	25	53%
Never	3	1%	1	2%	2	3%	0	0%	0	0%
Sometimes	63	25%	22	35%	19	34%	13	15.5%	9	19%
Usually	96	39%	20	31.5%	21	38%	42	50.5%	13	28%
Sometimes/Usually	1	0%	0	0%	0	0%	1	1%	0	0%
Not Measured	230		77		44		27		82	
N (excluding not measured)	249	100%	63	100%	56	100%	83	100%	47	100%

Table 9: Avoids unexamined use of emotionally loaded language or images.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	78	34%	23	36%	13	23%	35	42%	7	27%
Never	6	3%	3	5%	3	5%	0	0%	0	0%
Sometimes	75	33%	23	37%	20	36%	24	29%	8	31%
Sometimes/Usually	1	0%	0	0%	0	0%	1	1%	0	0%
Usually	68	30%	14	22%	20	36%	23	28%	11	42%
Not Measured	251		77		44		27		103	
N (excluding not measured)	228	100%	63	100%	56	100%	83	100%	26	100%

Table 10: Discriminates between facts versus values/opinions.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	106	42.5%	23	36%	17	30.3%	39	47%	27	57%
Never	7	2.5%	1	2%	5	9%	1	1%	0	0%
Sometimes	59	24%	24	38%	17	30.3%	13	16%	5	11%
Usually	77	31%	15	24%	17	30.3%	30	36%	15	32%
Not Measured	230		77		44		27		82	
N (excluding not measured)	249	100%	63	100%	56	99.9%	83	100%	47	100%

Table 11: Justifies assumptions based on ideology (political, religious, or personal), peer pressure, or self-interest.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	67	34%	19	46%	6	13%	34	41%	8	31%
Never	19	10%	1	3%	17	37%	1	1%	0	0%
Sometimes	43	22%	17	41%	12	26%	11	13%	3	11%
Usually	67	34%	4	10%	11	24%	37	45%	15	58%
Not Measured	283		99		54		27		103	
N (excluding not measured)	196	100%	41	100%	46	100%	83	100%	26	100%

Table 12: Presents fair/charitable consideration of rival theories of opposing views.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	69	34%	14	36%	11	20%	37	45%	7	27%
Never	9	5%	2	5%	5	9%	2	2%	0	0%
Sometimes	62	30%	17	44%	28	50%	12	15%	5	19%
Usually	62	30%	6	15%	12	21%	30	36%	14	54%
Sometimes/Usually	2	1%	0	0%	0	0%	2	2%	0	0%
Not Measured	275		101		44		27		103	
N (excluding not measured)	204	100%	39	100%	56	100%	83	100%	26	100%

Table 13: Is open-minded regarding alternative conclusions; avoids dogmatism.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	91	40%	11	27%	13	23%	42	51%	25	55%
Never	8	4%	2	5%	5	9%	1	1%	0	0%
Sometimes	51	23%	17	41%	16	29%	15	18%	3	7%
Usually	70	31%	11	27%	22	39%	20	24%	17	38%
Sometimes/Usually	5	2%	0	0%	0	0%	5	6%	0	0%
Not Measured	254		99		44		27		84	
N (excluding not measured)	225	100%	41	100%	56	100%	83	100%	45	100%

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Table 14: Overall for Accurate & Logical Analysis

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	840	43%	294	46%	79	20%	189	44%	278	56%
Never	126	6%	53	8%	63	16%	7	2%	3	1%
Sometimes	523	27%	197	31%	137	35%	96	22%	93	19%
Usually	463	24%	100	16%	107	28%	131	30%	125	25%
Sometimes/Usually	8	0%	0	0%	0	0%	8	2%	0	0%
Not Measured	1864		476		414		441		533	
N (excluding not measured)	1960	100%	644	100%	386	100%	431	100%	499	100%

Table 15: Infers conclusions that are well-supported by the premises.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	140	45%	44	47%	16	29%	36	44%	44	58%
Never	12	4%	7	8%	3	5%	0	0%	2	3%
Sometimes	80	26%	25	27%	18	32%	21	25%	16	21%
Usually	76	25%	17	18%	19	34%	26	31%	14	18%
Not Measured	170		47		44		26		53	
N (excluding not measured)	308	100%	93	100%	56	100%	83	99%	76	100%

Table 16: Develops arguments that are deductively valid or inductively strong; uses appropriate deductive and inductive criteria in composing or analyzing arguments.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	112	43%	43	47%	14	25%	27	40%	28	60%
Never	16	6%	6	7%	8	14%	2	3%	0	0%
Sometimes	79	30%	28	31%	17	30.5%	22	32%	12	25%
Usually	55	21%	14	15%	17	30.5%	17	25%	7	15%
Not Measured	217		49		44		42		82	
N (excluding not measured)	262	100%	91	100%	56	100%	68	100%	47	100%

Table 17: Demonstrates an understanding of theory and application.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	113	40%	28	44%	17	19%	26	46%	42	55%
Never	28	10%	5	8%	22	25%	1	2%	0	0%
Sometimes	71	25%	22	35%	33	38%	9	16%	7	9%
Usually	69	24%	8	13%	16	18%	18	31%	27	36%
Sometimes/Usually	3	1%	0	0%	0	0%	3	5%	0	0%
Not Measured	193		77		12		51		53	
N (excluding not measured)	284	100%	63	100%	88	100%	57	100%	76	100%

Table 18: Considers multiple methods in solutions.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	105	49%	42	47%	2	10%	35	62%	26	55%
Never	12	5.5%	7	8%	4	19%	1	2%	0	0%
Sometimes	53	25%	27	30%	7	33%	7	12%	12	26%
Usually	42	19.5%	14	15%	8	38%	11	19%	9	19%
Sometimes/Usually	3	1%	0	0%	0	0%	3	5%	0	0%
Not Measured	262		50		79		51		82	
N (excluding not measured)	215	100%	90	100%	21	100%	57	100%	47	100%

Table 19: Makes logical connections between and among ideas.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	124	48%	46	51%	15	27%	35	52%	28	60%
Never	9	3%	7	8%	2	4%	0	0%	0	0%
Sometimes	69	27%	25	28%	22	40%	14	21%	8	17%
Usually	57	22%	12	13%	16	29%	18	27%	11	23%
Not Measured	219		50		45		42		82	
N (excluding not measured)	259	100%	90	100%	55	100%	67	100%	47	100%

Table 20: Appropriately chooses and correctly uses formulas or formal techniques, (such as algebra, logic, probability theory, chemistry, physics, statistics, etc.)

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	94	42%	21	33%	7	35%	17	36%	49	52%
Never	9	4%	6	9%	3	15%	0	0%	0	0%
Sometimes	46	21%	18	29%	6	30%	10	21%	12	13%
Usually	75	33%	18	29%	4	20%	20	43%	33	35%
Not Measured	255		77		80		63		35	
N (excluding not measured)	224	100%	63	100%	20	100%	47	100%	94	100%

Table 21: Examines both internal and external inconsistencies. Checks solutions for reasonableness.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	82	38%	44	48%	4	8.5%	9	28%	25	53%
Never	19	9%	8	9%	10	22%	1	3%	0	0%
Sometimes	69	32%	29	31%	17	37%	9	28%	14	30%
Usually	45	21%	11	12%	15	32.5%	11	34%	8	17%
Sometimes/Usually	2	1%	0	0%	0	0%	2	6%	0	0%
Not Measured	261		48		54		77		82	
N (excluding not measured)	217	99%	92	100%	46	100%	32	99%	47	100%

Table 22: Understands how to form and test hypotheses.

	Overall		SMT		SSCA		LA		BUS	
	#	%	#	%	#	%	#	%	#	%
Consistently	70	37%	26	42%	4	9%	4	20%	36	55%
Never	21	11%	7	11%	11	25%	2	10%	1	2%
Sometimes	56	29%	23	37%	17	39%	4	20%	12	18%
Usually	44	23%	6	10%	12	27%	10	50%	16	25%
Not Measured	287		78		56		89		64	
N (excluding not measured)	191	100%	62	100%	44	100%	20	100%	65	100%