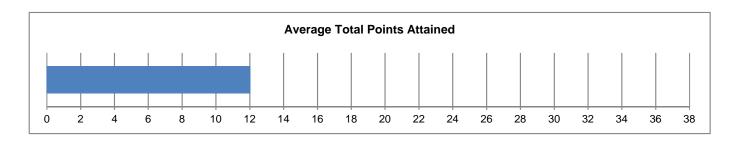
Sam Houston State University

CAT Institutional Report

July 2017 - COE - Curriculum and Instruction

CAT Overview: Descriptive Statistics for CAT Total Score Sam Houston State University: July 2017 - COE - Curriculum and Instruction

	N	Min.	Max.	Mean	Std. Dev
CAT Total Score	201	1.00	25.00	12.04	4.58



CAT Demographics: Descriptive Statistics for Sample

		Freq.	Freq. %	
Gender	Male	34	17.0%	
Gender	Female	166	83.0%	
	Freshman	0	0.0%	
Class Standing	Sophomore	0	0.0%	
	Junior	0	0.0%	
	Senior	197	100.0%	
Class	Undergraduate	192	98.5%	
	Graduate	3	1.5%	
Age	≤ 20 years	0	0.0%	
	21-25 years	161	83.4%	
	≥ 26 years	32	16.6%	

		Freq.	Freq. %
Proficiency with the English Language*	Excellent	176	87.6%
	Very Good	21	10.4%
	Good	2	1.0%
	Fair	2	1.0%
	Poor	0	0.0%

^{*} Self-rated

		Freq. Freq. %	
D**	White	176	87.6%
	Black or African American	75	37.3%
	American Indian or Alaska Native	62	30.8%
Race**	Asian	102	50.7%
	Native Hawaiian or Other Pacific Islander	109	54.2%
	Other Race	83	41.3%

^{**}The cumulative percent may exceed 100% as students are allowed to select more than one category.

	Freq.	Freq. %
Spanish/Hispanic/Latino Ethnicity	46	22.9%
Considered English primary language?	196	97.5%

CAT Breakdown: Frequency of Points Awarded for Each Question Sam Houston State University: July 2017 - COE - Curriculum and Instruction

	Skill Assessed by CAT Question	Points Awarded	Freq.	Freq. %
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0 1	63 138	31.3% 68.7%
	Q2 Evaluate how strongly correlational-type data supports a hypothesis.	0	91	45.3%
		1	66	32.8%
Q2		2	25	12.4%
		3	19	9.5%
			137	68.2%
	Provide alternative explanations for a pattern of results that has many possible	1	38	18.9%
Q3	causes.	2	22	10.9%
		3	4	2.0%
		0	139	69.2%
		1	46	22.9%
Q4	Identify additional information needed to evaluate a hypothesis.	2	11	5.5%
		3	5	2.5%
		4	0	0.0%
05	Evaluate whether enurious information etrangly supports a bypothesis	0	66	32.8%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	1	135	67.2%
		0	37	18.4%
06	Provide alternative explanations for sourious associations	1	106	52.7%
Q6	Provide alternative explanations for spurious associations.	2	52	25.9%
		3	6	3.0%
		0	161	80.1%
Q7	Identify additional information needed to evaluate a hypothesis.	1	38	18.9%
		2	2	1.0%
Q8	Determine whether an invited inference is supported by specific information.	0	69	34.3%
	Determine whether an invited interest to cappelled by openine intermedial.	1	132	65.7%
_	Provide relevant alternative interpretations for a specific set of results.	0	102	50.7%
Q9		1	79	39.3%
		2	20	10.0%
	Separate relevant from irrelevant information when solving a real-world problem.	0	6	3.0%
		1	11	5.5%
Q10		2	34	16.9%
		3	90	44.8%
		4	60	29.9%
Q11	Lice and apply relevant information to evaluate a problem	0	129	64.2%
WII	Use and apply relevant information to evaluate a problem.	1 2	66 6	32.8%
		0	61	30.3%
Q12	Use basic mathematical skills to help solve a real-world problem.	1	140	69.7%
		0	96	47.8%
		1	86	42.8%
Q13	Identify suitable solutions for a real-world problem using relevant information.	2	16	8.0%
		3	3	1.5%
		0	99	49.3%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	1	19	9.5%
		2	10	5.0%
		3	43	21.4%
		4	27	13.4%
			3	1.5%
		0	162	80.6%
045		1	30	14.9%
Q15	Explain how changes in a real-world problem situation might affect the solution.	2	6	3.0%
		3	3	1.5%

Institutional/Departmental Profile Sam Houston State University: July 2017 - COE - Curriculum and Instruction Evaluate Institution/Department Problem Creative Effective and Skill Assessed by CAT Question Comm. Interpret Solvina Thinking Avg. % of Info Mean Attainable Points Q1 Summarize the pattern of results in a graph without making inappropriate inferences. 69% Χ 0.69 Χ Χ Q2 Evaluate how strongly correlational-type data supports a hypothesis. 0.86 29% Provide alternative explanations for a pattern of results that has many possible Q3 Χ Χ 0.47 16% causes. Χ Χ Χ Q4 Identify additional information needed to evaluate a hypothesis. 0.41 10% Χ Q5 Evaluate whether spurious information strongly supports a hypothesis. 0.67 67% Provide alternative explanations for spurious associations. Χ Χ Q6 1.13 38% Χ Χ Χ Q7 Identify additional information needed to evaluate a hypothesis. 0.21 10% Q8 Х Determine whether an invited inference is supported by specific information. 0.66 66% Χ Χ Q9 30% Provide relevant alternative interpretations for a specific set of results. 0.59 Χ Χ Q10 Separate relevant from irrelevant information when solving a real-world problem. 2.93 73% Χ Χ Χ Q11 Use and apply relevant information to evaluate a problem. 0.39 19% Χ Q12 Use basic mathematical skills to help solve a real-world problem. 0.70 70% Χ Q13 Identify suitable solutions for a real-world problem using relevant information. 21% Χ 0.63 Identify and explain the best solution for a real-world problem using relevant Χ Χ Χ Q14 1.45 29% information. Χ Χ Χ Q15 Explain how changes in a real-world problem situation might affect the solution. 0.25 8% **CAT Total Score** 12.04 32%

The map of skills covered by each question above is a suggested theoretical guide for interpreting results.

Upper Division CAT Means Comparison Report Sam Houston State University: July 2017 - COE - Curriculum and Instruction Evaluate National Institution Creative Effective and Problem Skill Assessed by CAT Question Comm. Interpret Solvina Thinking Probability of Effect Info difference^a Sizeb Mean Mean Summarize the pattern of results in a graph without making inappropriate Ω1 0.67 Χ 0.69 inferences. *** Χ Χ Q2 Evaluate how strongly correlational-type data supports a hypothesis. 0.86 1.21 -.33 Provide alternative explanations for a pattern of results that has many possible Q3 *** Χ Х 0.47 1.35 -.97 causes. *** Χ Χ Χ Q4 Identify additional information needed to evaluate a hypothesis. 0.41 1.41 -.98 Χ Q5 Evaluate whether spurious information strongly supports a hypothesis. 0.67 0.73 Х Χ Q6 Provide alternative explanations for spurious associations. 1.13 1.56 -.53 *** Χ Χ Χ Q7 Identify additional information needed to evaluate a hypothesis. 0.21 0.82 -1.07 Χ Q8 Determine whether an invited inference is supported by specific information. 0.66 0.68 Q9 *** Χ Χ Provide relevant alternative interpretations for a specific set of results. 0.59 0.93 -.48 Χ Х Q10 Separate relevant from irrelevant information when solving a real-world problem. 2.93 3.14 -.22 *** Χ Χ Χ Q11 Use and apply relevant information to evaluate a problem. 0.39 1.11 -1.21 *** Χ Q12 0.70 0.82 -.28 Use basic mathematical skills to help solve a real-world problem. Q13 Χ Χ Identify suitable solutions for a real-world problem using relevant information. 0.63 1.18 -.62 Identify and explain the best solution for a real-world problem using relevant *** Χ Χ Q14 1.45 2.29 -.49 Χ information. *** Χ Χ Χ Q15 Explain how changes in a real-world problem situation might affect the solution. 0.25 1.15 -1.04**CAT Total Score** *** 12.04 19.04 -1.31

(0.1 - 0.3 = small effect; 0.3 - 0.5 = moderate effect; >0.5 = large effect)

The map of skills covered by each question above is a suggested theoretical guide for interpreting results.

a. * p<.05 **p<.01 ***p<.001 (2 -tailed) Does not Account for entering ACT/SAT.

^b. Mean difference divided by pooled group standard deviation.