

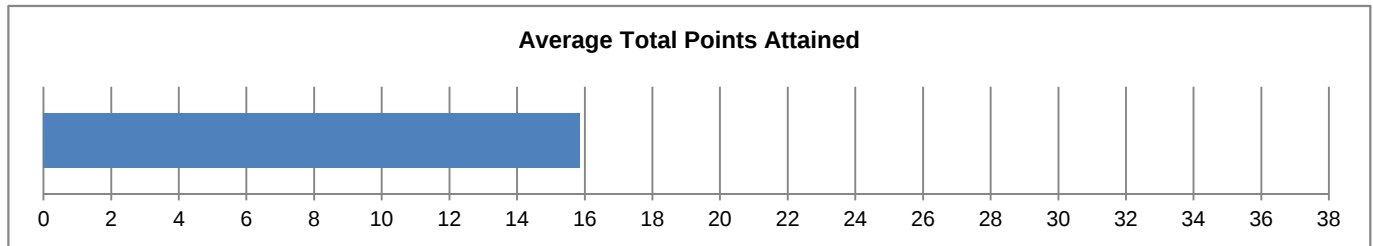
Sam Houston State University

CAT Institutional Report

August 2016 - Overall Report

CAT Overview: Descriptive Statistics for CAT Total Score
Sam Houston State University: August 2016 - Overall Report

	N	Min.	Max.	Mean	Std. Dev
CAT Total Score	223	3.00	30.00	15.84	6.12



CAT Demographics: Descriptive Statistics for Sample

		Freq.	Freq. %
Gender	Male	82	37.1%
	Female	139	62.9%
Class Standing	Freshman	1	0.5%
	Sophomore	8	3.7%
	Junior	58	26.6%
	Senior	151	69.3%
Class	Undergraduate	205	98.6%
	Graduate	3	1.4%
Age	≤ 20 years	27	12.4%
	21-25 years	171	78.8%
	≥ 26 years	19	8.8%

		Freq.	Freq. %
Race**	White	158	70.9%
	Black or African American	38	17.0%
	American Indian or Alaska Native	4	1.8%
	Asian	3	1.3%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	Other Race	23	10.3%

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

		Freq.	Freq. %
Proficiency with the English Language*	Excellent	173	77.6%
	Very Good	40	17.9%
	Good	9	4.0%
	Fair	1	0.4%
	Poor	0	0.0%

* Self-rated

	Freq.	Freq. %
Spanish/Hispanic/Latino Ethnicity	45	20.2%
Considered English primary language?	216	96.9%

CAT Breakdown: Frequency of Points Awarded for Each Question

Sam Houston State University: August 2016 - Overall Report

	Skill Assessed by CAT Question	Points Awarded	Freq.	Freq. %
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0	65	29.1%
		1	158	70.9%
Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0	81	36.3%
		1	62	27.8%
		2	43	19.3%
		3	37	16.6%
Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0	95	42.6%
		1	67	30.0%
		2	44	19.7%
		3	17	7.6%
Q4	Identify additional information needed to evaluate a hypothesis.	0	98	43.9%
		1	58	26.0%
		2	42	18.8%
		3	13	5.8%
		4	12	5.4%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	0	61	27.5%
		1	161	72.5%
Q6	Provide alternative explanations for spurious associations.	0	30	13.5%
		1	74	33.2%
		2	90	40.4%
		3	29	13.0%
Q7	Identify additional information needed to evaluate a hypothesis.	0	147	65.9%
		1	64	28.7%
		2	12	5.4%
Q8	Determine whether an invited inference is supported by specific information.	0	85	38.1%
		1	138	61.9%
Q9	Provide relevant alternative interpretations for a specific set of results.	0	114	51.4%
		1	84	37.8%
		2	24	10.8%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	6	2.7%
		1	7	3.1%
		2	39	17.5%
		3	88	39.5%
		4	83	37.2%
Q11	Use and apply relevant information to evaluate a problem.	0	91	40.8%
		1	99	44.4%
		2	33	14.8%
Q12	Use basic mathematical skills to help solve a real-world problem.	0	58	26.0%
		1	165	74.0%
Q13	Identify suitable solutions for a real-world problem using relevant information.	0	88	39.8%
		1	74	33.5%
		2	31	14.0%
		3	28	12.7%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	0	77	34.5%
		1	32	14.3%
		2	9	4.0%
		3	27	12.1%
		4	58	26.0%
		5	20	9.0%
Q15	Explain how changes in a real-world problem situation might affect the solution.	0	137	61.4%
		1	54	24.2%
		2	24	10.8%
		3	8	3.6%

Institutional/Departmental Profile							
Sam Houston State University: August 2016 - Overall Report							
Skill Assessed by CAT Question					Institution/Department		
					Mean	Avg. % of Attainable Points	
X				Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0.71	71%
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	1.16	39%
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.92	31%
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	1.03	26%
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.73	73%
		X	X	Q6	Provide alternative explanations for spurious associations.	1.53	51%
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.39	20%
X				Q8	Determine whether an invited inference is supported by specific information.	0.62	62%
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.59	30%
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.05	76%
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.74	37%
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.74	74%
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	1.00	33%
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	2.07	41%
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.57	19%
				CAT Total Score		15.84	42%

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: August 2016 - Overall Report										
Evaluate and Interpret Info	Problem Solving	Creative Thinking	Effective Comm.		Skill Assessed by CAT Question	Institution		National		
						Mean		Mean	Probability of difference ^a	Effect Size ^b
X				Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0.71		0.67		
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	1.16		1.21		
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.92	***	1.35	***	-.43
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	1.03	***	1.41	***	-.32
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.73		0.73		
		X	X	Q6	Provide alternative explanations for spurious associations.	1.53		1.56		
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.39	***	0.82	***	-.67
X				Q8	Determine whether an invited inference is supported by specific information.	0.62	*	0.68	*	-.14
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.59	***	0.93	***	-.47
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.05		3.14		
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.74	***	1.11	***	-.55
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.74	**	0.82	**	-.19
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	1.00	**	1.18	**	-.18
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	2.07		2.29		
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.57	***	1.15	***	-.61
					CAT Total Score	15.84		19.04	***	-.53

^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.

(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.