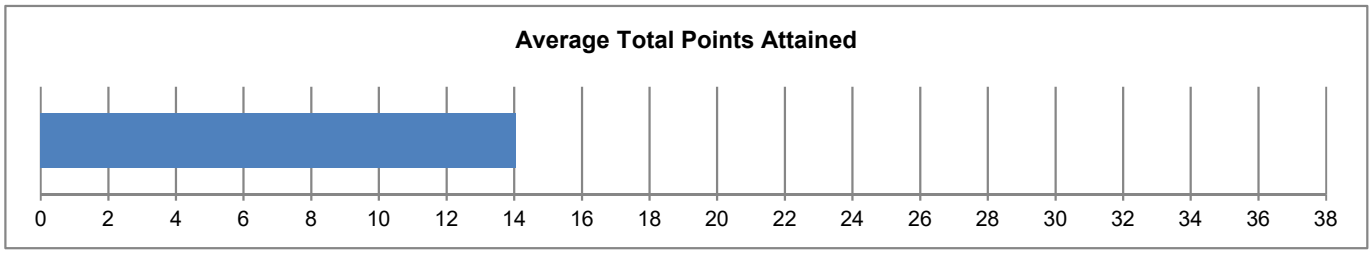
Sam Houston State University

CAT Institutional Report

July 2019 - Overall University

CAT Overview: Descriptive Statistics for CAT Total Score
Sam Houston State University: July 2019 - Overall University

	N	Min.	Max.	Mean	Std. Dev
CAT Total Score	535	1.00	32.00	14.05	5.41



CAT Demographics: Descriptive Statistics for Sample

		Freq.	Freq. %
Gender	**Male**	245	46.3%
	Female	284	53.7%
Class Standing	**Freshman**	5	0.9%
	Sophomore	29	5.5%
	Junior	171	32.3%
	Senior	325	61.3%
Class	**Undergraduate**	528	100.0%
	Graduate	0	0.0%
Age	**≤ 20 years**	104	20.6%
	21-25 years	344	68.1%
	≥ 26 years	57	11.3%

		Freq.	Freq. %
Race**	**White**	368	68.8%
	Black or African American	89	16.6%
	American Indian or Alaska Native	15	2.8%
	Asian	17	3.2%
	Native Hawaiian or Other Pacific Islander	2	0.4%
	Other Race	61	11.4%

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

		Freq.	Freq. %
Proficiency with the English Language*	**Excellent**	378	71.1%
	Very Good	121	22.7%
	Good	31	5.8%
	Fair	2	0.4%
	Poor	0	0.0%

* Self-rated

	Freq.	Freq. %
Spanish/Hispanic/Latino Ethnicity	163	30.5%
Considered English primary language?	480	89.7%

CAT Breakdown: Frequency of Points Awarded for Each Question

Sam Houston State University: July 2019 - Overall University

	Skill Assessed by CAT Question	Points Awarded	Freq.	Freq. %
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	**0**	206	38.5%
		1	329	61.5%
Q2	Evaluate how strongly correlational-type data supports a hypothesis.	**0**	218	40.7%
		1	184	34.4%
		2	71	13.3%
		3	62	11.6%
Q3	Provide alternative explanations for a pattern of results that has many possible causes.	**0**	300	56.1%
		1	131	24.5%
		2	70	13.1%
		3	34	6.4%
Q4	Identify additional information needed to evaluate a hypothesis.	**0**	311	58.1%
		1	171	32.0%
		2	37	6.9%
		3	15	2.8%
		4	1	0.2%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	**0**	134	25.0%
		1	401	75.0%
Q6	Provide alternative explanations for spurious associations.	**0**	108	20.2%
		1	214	40.0%
		2	181	33.8%
		3	32	6.0%
Q7	Identify additional information needed to evaluate a hypothesis.	**0**	368	68.8%
		1	151	28.2%
		2	16	3.0%
Q8	Determine whether an invited inference is supported by specific information.	**0**	226	42.2%
		1	309	57.8%
Q9	Provide relevant alternative interpretations for a specific set of results.	**0**	243	45.4%
		1	232	43.4%
		2	60	11.2%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	**0**	15	2.8%
		1	28	5.2%
		2	95	17.8%
		3	210	39.3%
		4	187	35.0%
Q11	Use and apply relevant information to evaluate a problem.	**0**	226	42.2%
		1	261	48.8%
		2	48	9.0%
Q12	Use basic mathematical skills to help solve a real-world problem.	**0**	127	23.7%
		1	408	76.3%
Q13	Identify suitable solutions for a real-world problem using relevant information.	**0**	240	44.9%
		1	181	33.8%
		2	61	11.4%
		3	53	9.9%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	**0**	197	36.8%
		1	77	14.4%
		2	17	3.2%
		3	93	17.4%
		4	129	24.1%
		5	22	4.1%
Q15	Explain how changes in a real-world problem situation might affect the solution.	**0**	371	69.3%
		1	93	17.4%
		2	52	9.7%
		3	19	3.6%

Institutional/Departmental Profile

Sam Houston State University: July 2019 - Overall University

Evaluate and Interpret Info	Problem Solving	Creative Thinking	Effective Comm.		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.	0.61	61%
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0.96	32%
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.70	23%
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.55	14%
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.75	75%
		X	X	Q6	Provide alternative explanations for spurious associations.	1.26	42%
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.34	17%
X				Q8	Determine whether an invited inference is supported by specific information.	0.58	58%
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.66	33%
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	2.98	75%
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.67	33%
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.76	76%
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.86	29%
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	1.90	38%
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.47	16%
					CAT Total Score	14.05	37%

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 2019 - Overall University

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.	0.61	0.67	*	-.11
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0.96	1.21	***	-.27
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.70	1.35	***	-.71
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.55	1.41	***	-.92
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.75	0.73		
		X	X	Q6	Provide alternative explanations for spurious associations.	1.26	1.56	***	-.35
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.34	0.82	***	-.85
X				Q8	Determine whether an invited inference is supported by specific information.	0.58	0.68	***	-.21
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.66	0.93	***	-.40
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	2.98	3.14	***	-.15
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.67	1.11	***	-.66
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.76	0.82	**	-.13
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.86	1.18	***	-.35
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	1.90	2.29	***	-.22
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.47	1.15	***	-.85
					CAT Total Score	14.05	19.04	***	-.95

[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.