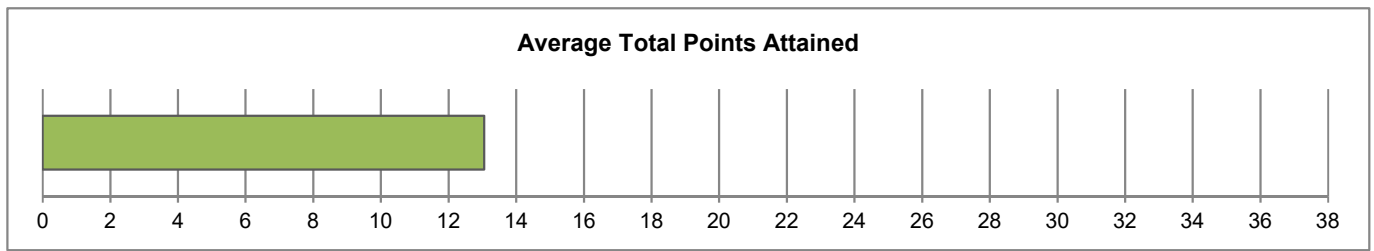# Sam Houston State University

CAT Institutional Report

Fall 2022 & Spring 2023 - School of Teaching and Learning

CAT Overview: Descriptive Statistics for CAT Total Score
Sam Houston State University: Fall 2022 & Spring 2023 - School of Teaching and Learning

	N	Min.	Max.	Mean	Std. Dev
CAT Total Score	175	4.00	27.00	13.06	4.31

Average Total Points Attained

	N	Min.	Max.	Mean	Std. Dev
Time Spent (in minutes)	175	13	93	34	13

CAT Demographics: Descriptive Statistics for Sample

		Freq.	Freq. %
Gender	**Male**	51	29.8%
	Female	120	70.2%
Class Standing	**Freshman**	1	0.6%
	Sophomore	25	14.4%
	Junior	84	48.3%
	Senior	64	36.8%
Class	**Undergraduate**	174	100.0%
	Graduate	0	0.0%
Age	**≤ 20 years**	70	40.9%
	21-25 years	90	52.6%
	≥ 26 years	11	6.4%

		Freq.	Freq. %
Race**	**White**	132	75.4%
	Black or African American	13	7.4%
	American Indian or Alaska Native	2	1.1%
	Asian	1	0.6%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	Other Race	18	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**	122	70.5%
	Very Good	39	22.5%
	Good	12	6.9%
	Fair	0	0.0%
	Poor	0	0.0%

* Self-rated

	Freq.	Freq. %
Spanish/Hispanic/Latino Ethnicity	53	30.3%
Considered English primary language?	161	92.0%

CAT Breakdown: Frequency of Points Awarded for Each Question
Sam Houston State University: Fall 2022 & Spring 2023 - School of Teaching and Learning

	Skill Assessed by CAT Question	Points Awarded	Freq.	Institution
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0	33	18.9%
		1	142	81.1%
Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0	93	53.1%
		1	45	25.7%
		2	18	10.3%
		3	19	10.9%
Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0	103	58.9%
		1	38	21.7%
		2	25	14.3%
		3	9	5.1%
Q4	Identify additional information needed to evaluate a hypothesis.	0	112	64.0%
		1	53	30.3%
		2	9	5.1%
		3	1	0.6%
		4	0	0.0%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	0	72	41.1%
		1	103	58.9%
Q6	Provide alternative explanations for spurious associations.	0	39	22.3%
		1	51	29.1%
		2	78	44.6%
		3	7	4.0%
Q7	Identify additional information needed to evaluate a hypothesis.	0	166	94.9%
		1	9	5.1%
		2	0	0.0%
Q8	Determine whether an invited inference is supported by specific information.	0	85	48.6%
		1	90	51.4%
Q9	Provide relevant alternative interpretations for a specific set of results.	0	81	46.3%
		1	85	48.6%
		2	9	5.1%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	3	1.7%
		1	7	4.0%
		2	28	16.0%
		3	83	47.4%
		4	54	30.9%
Q11	Use and apply relevant information to evaluate a problem.	0	45	25.7%
		1	119	68.0%
		2	11	6.3%
Q12	Use basic mathematical skills to help solve a real-world problem.	0	46	26.3%
		1	129	73.7%
Q13	Identify suitable solutions for a real-world problem using relevant information.	0	61	34.9%
		1	84	48.0%
		2	25	14.3%
		3	5	2.9%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	0	65	37.1%
		1	32	18.3%
		2	4	2.3%
		3	24	13.7%
		4	42	24.0%
		5	8	4.6%
Q15	Explain how changes in a real-world problem situation might affect the solution.	0	163	93.1%
		1	8	4.6%
		2	4	2.3%
		3	0	0.0%

Institutional/Departmental Profile
Sam Houston State University: Fall 2022 & Spring 2023 - School of Teaching and Learning

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.	0.81	81%
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0.79	26%
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.66	22%
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.42	11%
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.59	59%
		X	X	Q6	Provide alternative explanations for spurious associations.	1.30	43%
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.05	3%
X				Q8	Determine whether an invited inference is supported by specific information.	0.51	51%
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.59	29%
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.02	75%
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.81	40%
	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.	0.85	28%
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	1.83	37%
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.09	3%
					CAT Total Score	13.06	34%

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