

Sam Houston State University

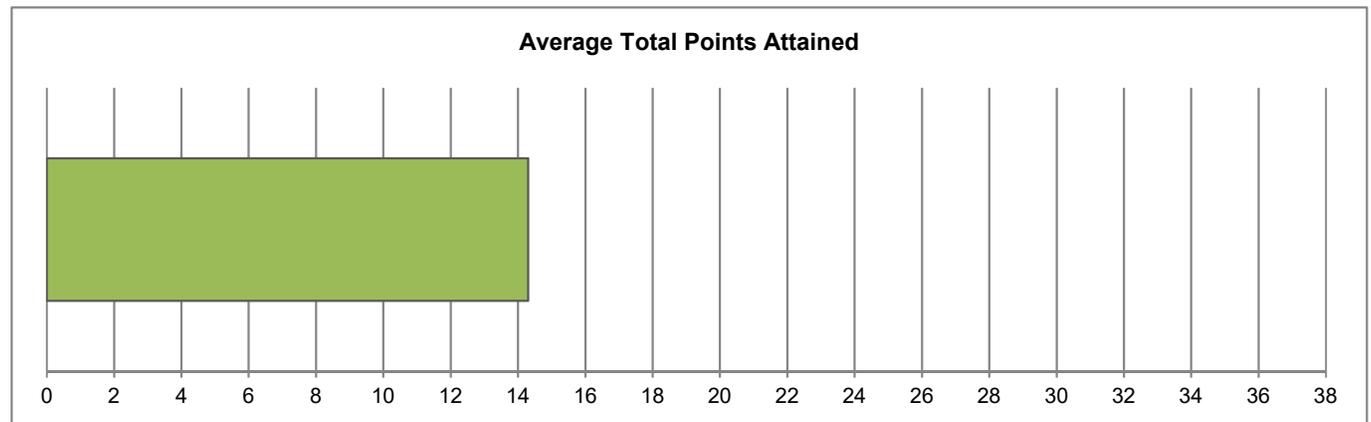
CAT Institutional Report

Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

CAT Overview: Descriptive Statistics for CAT Total Score

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Science

	N	Min.	Max.	Mean	Std. Dev
CAT Total Score	129	5.00	28.00	14.30	4.73



	N	Min.	Max.	Mean	Std. Dev
Time Spent (in minutes)	129	10	79	38	14

CAT Demographics: Descriptive Statistics for Sample

		Freq.	Freq. %
Gender	Male	35	28.5%
	Female	88	71.5%
Class Standing	Freshman	2	1.6%
	Sophomore	13	10.2%
	Junior	51	39.8%
	Senior	62	48.4%
Class	Undergraduate	128	99.2%
	Graduate	1	0.8%
Age	≤ 20 years	44	34.6%
	21-25 years	69	54.3%
	≥ 26 years	14	11.0%

		Freq.	Freq. %
Race**	White	88	68.2%
	Black or African American	20	15.5%
	American Indian or Alaska Native	3	2.3%
	Asian	3	2.3%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	Other Race	7	5.4%

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

		Freq.	Freq. %
Proficiency with the English Language*	Excellent	97	75.2%
	Very Good	18	14.0%
	Good	14	10.9%
	Fair	0	0.0%
	Poor	0	0.0%

* Self-rated

	Freq.	Freq. %
Spanish/Hispanic/Latino Ethnicity	35	27.1%
Considered English primary language?	118	91.5%

CAT Breakdown: Frequency of Points Awarded for Each Question

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

	Skill Assessed by CAT Question	Points Awarded	Freq.	Institution
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0	25	19.4%
		1	104	80.6%
Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0	50	38.8%
		1	45	34.9%
		2	15	11.6%
		3	19	14.7%
Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0	64	49.6%
		1	34	26.4%
		2	28	21.7%
		3	3	2.3%
Q4	Identify additional information needed to evaluate a hypothesis.	0	88	68.2%
		1	34	26.4%
		2	7	5.4%
		3	0	0.0%
		4	0	0.0%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	0	27	20.9%
		1	102	79.1%
Q6	Provide alternative explanations for spurious associations.	0	19	14.7%
		1	34	26.4%
		2	64	49.6%
		3	12	9.3%
Q7	Identify additional information needed to evaluate a hypothesis.	0	111	86.0%
		1	18	14.0%
		2	0	0.0%
Q8	Determine whether an invited inference is supported by specific information.	0	60	46.5%
		1	69	53.5%
Q9	Provide relevant alternative interpretations for a specific set of results.	0	52	40.3%
		1	74	57.4%
		2	3	2.3%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	0	0.0%
		1	9	7.0%
		2	23	17.8%
		3	55	42.6%
		4	42	32.6%
Q11	Use and apply relevant information to evaluate a problem.	0	44	34.1%
		1	78	60.5%
		2	7	5.4%
Q12	Use basic mathematical skills to help solve a real-world problem.	0	38	29.5%
		1	91	70.5%
Q13	Identify suitable solutions for a real-world problem using relevant information.	0	52	40.3%
		1	45	34.9%
		2	26	20.2%
		3	6	4.7%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	0	38	29.5%
		1	26	20.2%
		2	2	1.6%
		3	12	9.3%
		4	39	30.2%
		5	12	9.3%
Q15	Explain how changes in a real-world problem situation might affect the solution.	0	108	83.7%
		1	15	11.6%
		2	6	4.7%
		3	0	0.0%

Institutional/Departmental Profile

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

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.	1.02	34%
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.77	26%
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.37	9%
Fall 2021 & Spring 2022 -				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.79	79%
		X	X	Q6	Provide alternative explanations for spurious associations.	1.53	51%
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.14	7%
X				Q8	Determine whether an invited inference is supported by specific information.	0.53	53%
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.62	31%
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.01	75%
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.71	36%
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.71	71%
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.89	30%
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	2.19	44%
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.21	7%
CAT Total Score						14.30	38%

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

Freshman CAT Means Comparison Report

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

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.	0.81	0.62	***	+ .42
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	1.02	0.96		
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.77	0.91		
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.37	0.91	***	-.62
Fall 2021 & Spring 2022 -				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.79	0.64	***	+.34
		X	X	Q6	Provide alternative explanations for spurious associations.	1.53	1.33	*	+.23
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.14	0.47	***	-.67
X				Q8	Determine whether an invited inference is supported by specific information.	0.53	0.54		
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.62	0.71		
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.01	3.12		
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.71	0.91	**	-.31
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.71	0.77		
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.89	0.92		
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	2.19	2.04		
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.21	0.71	***	-.67
CAT Total Score						14.30	15.55	*	-.23

^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)

Senior CAT Means Comparison Report

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

Evaluate and Interpret Info	Problem Solving	Creative Thinking	Effective Comm.		Skill Assessed by CAT Question	Institution	National ^a		
						Mean	Mean	Probability of difference ^b	Effect Size ^c
X				Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0.81	0.70	**	+.25
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	1.02	1.20		
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.77	1.15	***	-.40
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.37	1.10	***	-.79
Fall 2021 & Spring 2022 -				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.79	0.75		
		X	X	Q6	Provide alternative explanations for spurious associations.	1.53	1.53		
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.14	0.56	***	-.82
X				Q8	Determine whether an invited inference is supported by specific information.	0.53	0.66	**	-.26
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.62	0.85	***	-.36
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.01	3.13		
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.71	0.95	***	-.38
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.71	0.82	**	-.26
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.89	1.10	*	-.22
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	2.19	2.24		
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.21	0.92	***	-.89
CAT Total Score						14.30	17.64	***	-.61

^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)

CAT Breakdown: Frequency of Points Awarded for Each Question

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

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		3	19	14.7%
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		3	12	9.3%
Q7	Identify additional information needed to evaluate a hypothesis.	0	111	86.0%
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		2	0	0.0%
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Q9	Provide relevant alternative interpretations for a specific set of results.	0	52	40.3%
		1	74	57.4%
		2	3	2.3%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	0	0.0%
		1	9	7.0%
		2	23	17.8%
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		2	2	1.6%
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		1	15	11.6%
		2	6	4.7%
		3	0	0.0%

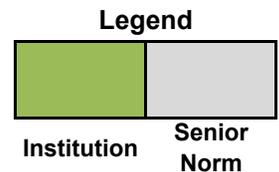
Senior Norm

30.2%
69.8%
33.4%
31.9%
16.2%
18.5%
35.5%
26.9%
24.9%
12.7%
40.5%
27.0%
18.9%
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32.1%
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18.8%
9.5%

Frequency of Points Awarded on the CAT

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

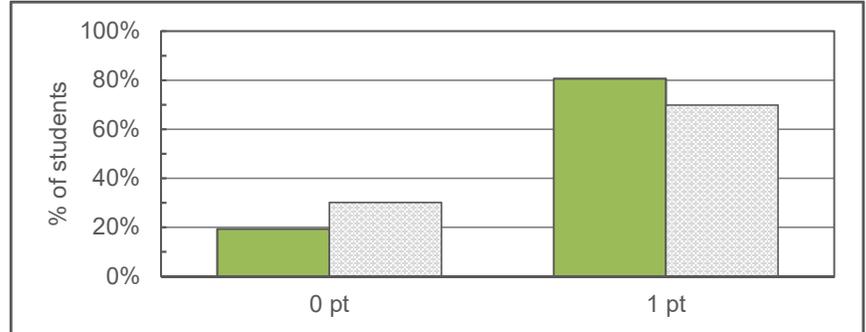
Questions 1-4 present students with a scenario and graph. In this section of questions, students will be asked to summarize the trend of the graph, evaluate the strength of the graph in supporting an argument, provide potential alternative explanations for the trend of the graph, and identify additional information that would be useful to more fully understand the situation. This set of questions aligns with CAT App Skill Set 1.



Fall 2021

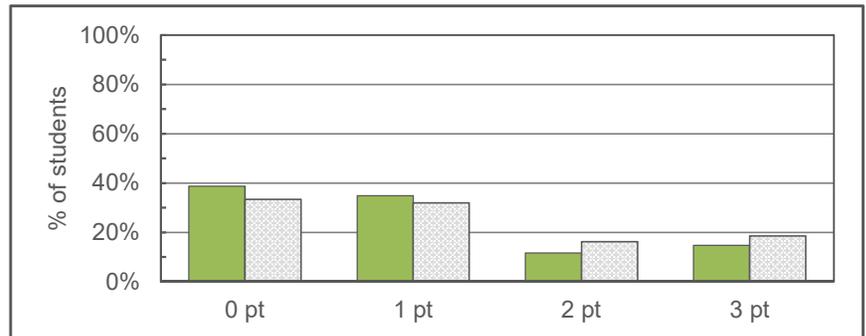
Q1 Summarize the pattern of results in a graph without making inappropriate inferences.

A point is awarded for responses that describe the trend in the graph AND do not attribute the findings to a single cause when there are a variety of potential explanations.



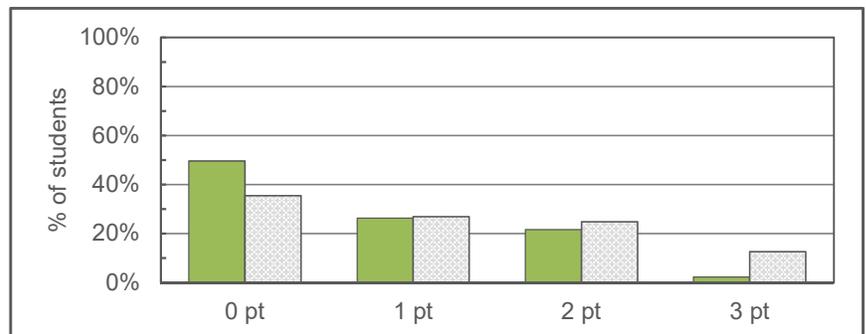
Q2 Evaluate how strongly correlational-type data supports a hypothesis.

Points are awarded for responses that explain the limitations of the correlation observed and the possibility of alternative explanations.



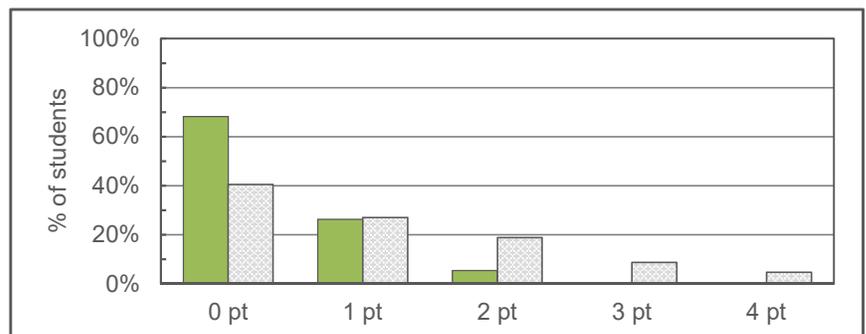
Q3 Provide alternative explanations for a pattern of results that has many possible causes.

Points are awarded for the number of viable alternative explanations provided for the reported findings.



Q4 Identify additional information needed to evaluate a hypothesis.

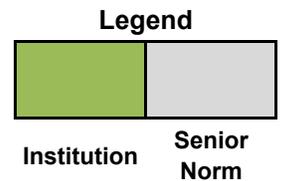
Points are awarded for clearly identifying types of information needed to evaluate competing hypotheses.



Frequency of Points Awarded on the CAT

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

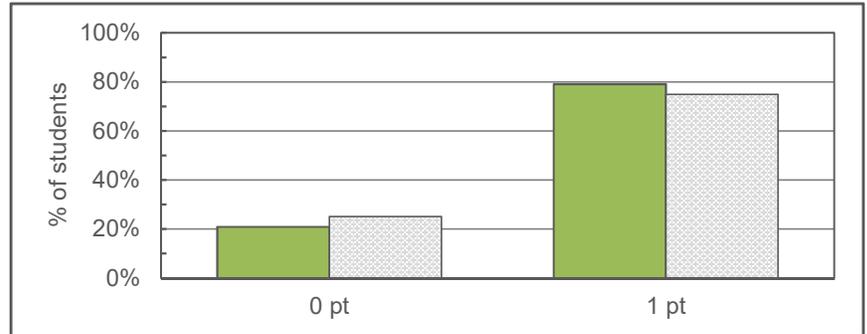
Questions 5-7 present students with a hypothesis and two pieces of evidence. In this section of questions, students will be asked to evaluate the strength of the evidence in supporting a hypothesis, provide potential alternative explanations for the evidence, and identify additional information that would be useful to more fully evaluate the hypothesis. This set of questions aligns with CAT App Skill Set 1.



Fall 2021

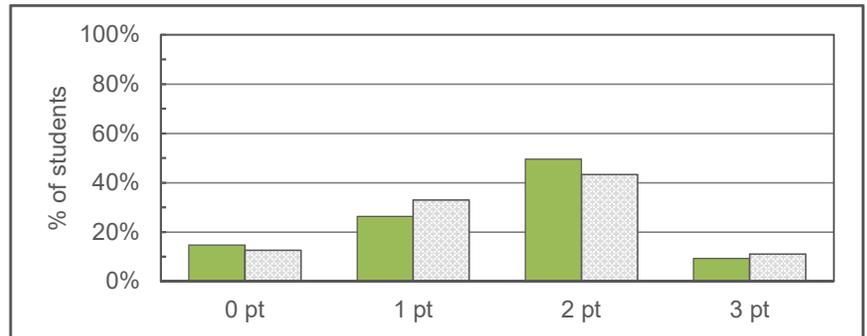
Q5 Evaluate whether spurious information strongly supports a hypothesis.

A point is awarded for recognizing that spurious information does not strongly support a hypothesis.



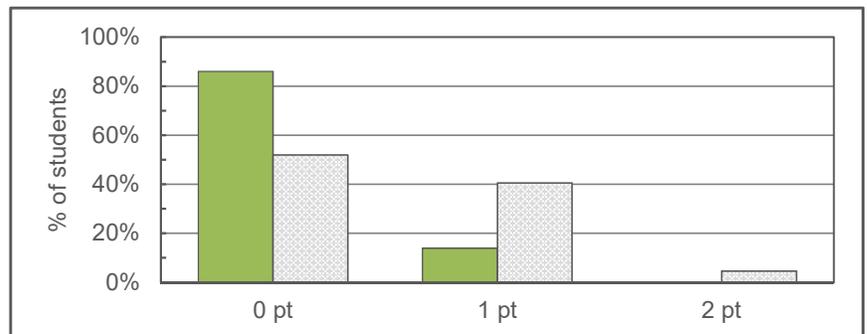
Q6 Provide alternative explanations for spurious associations.

Points are awarded for explaining the spurious nature of the evidence.



Q7 Identify additional information needed to evaluate a hypothesis.

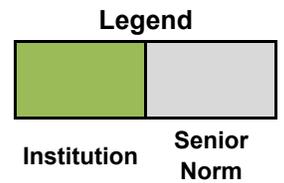
Points are awarded for clearly identifying new information that needs to be obtained to evaluate the hypothesis.



Frequency of Points Awarded on the CAT

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

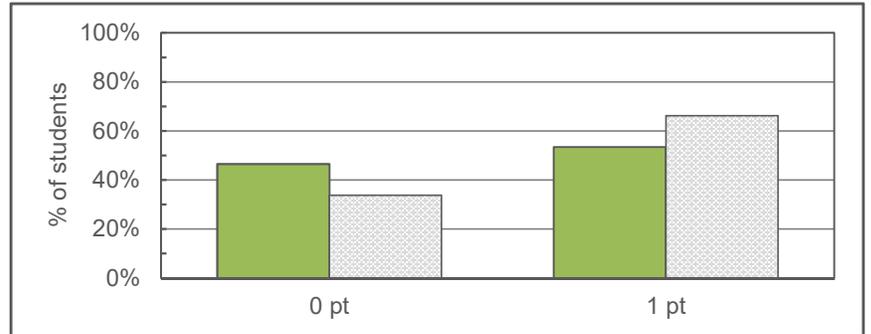
Questions 8-9 present students with the results of a survey and a corresponding marketing claim. In this section of questions, students will be asked to evaluate whether the marketing claim is supported by the results of the survey and to provide potential alternative explanations for the results of the survey. This set of questions aligns with CAT App Skill Set 1.



Fall 2021

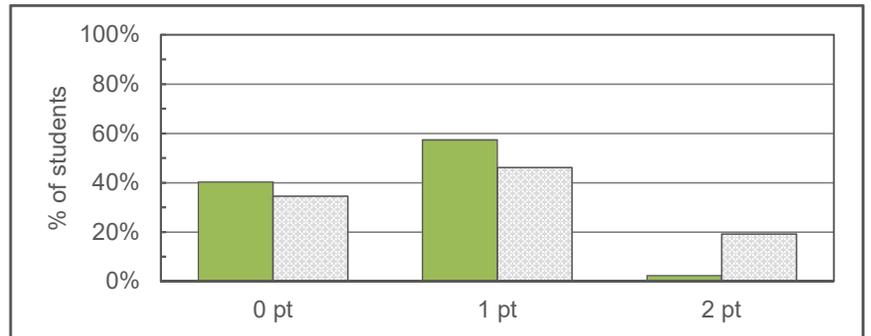
Q8 Determine whether an invited inference is supported by specific information.

A point is awarded for indicating the provided evidence does not strongly support the hypothesis.



Q9 Provide relevant alternative interpretations for a specific set of results.

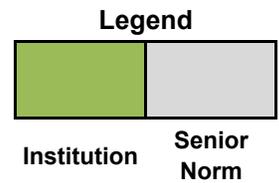
Points are awarded for providing alternative interpretations of the findings.



Frequency of Points Awarded on the CAT

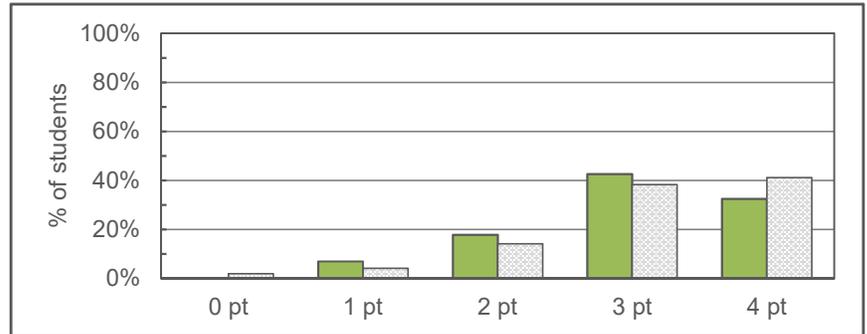
Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

Questions 10-15 present students with a real-world problem-solving task. In this section of questions, students will be asked to evaluate the relevance of available information, read relevant information, evaluate a suggested solution based on relevant information, solve a basic mathematical problem needed to solve the problem, identify a group of appropriate solutions, identify the best solution for a the problem situation, and identify changes to the problem situation that would change the solution. This set of questions aligns with CAT App Skill Set 2.



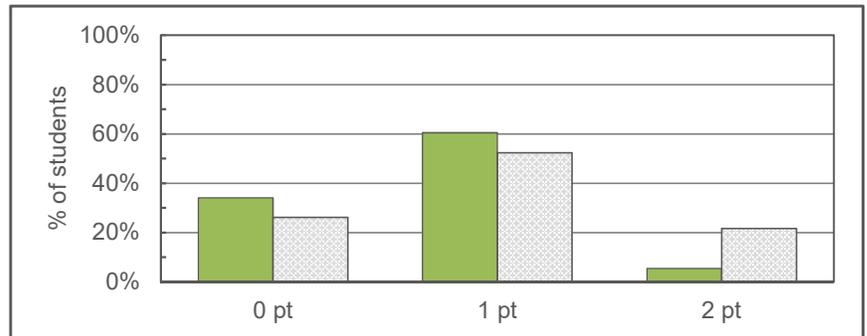
Q10 Separate relevant from irrelevant information when solving a real-world problem.

Points are awarded for correctly identifying information relevant to solving the problem based on the descriptive titles of the available information.



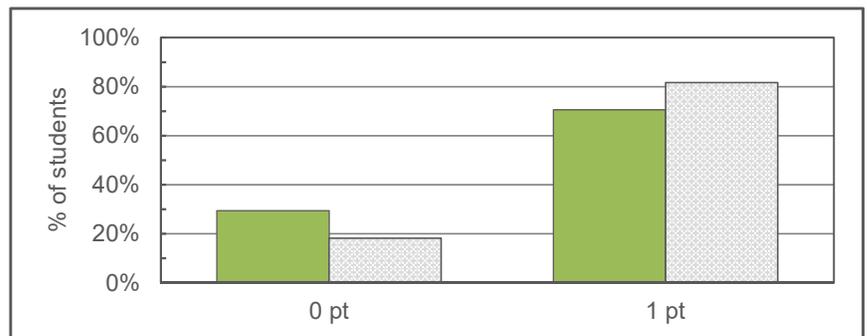
Q11 Use and apply relevant information to evaluate a problem.

Points are awarded for applying relevant information from the additional information to the problem.



Q12 Use basic mathematical skills to help solve a real-world problem.

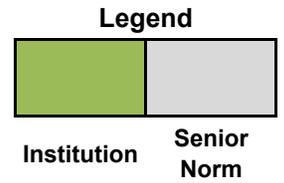
A points is awarded for performing a basic mathematical calculation needed to help solve a real-world problem.



Frequency of Points Awarded on the CAT

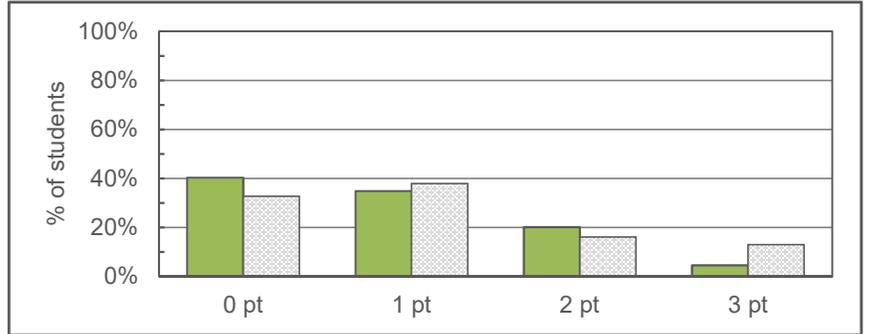
Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

Questions 10-15 present students with a real-world problem-solving task. In this section of questions, students will be asked to evaluate the relevance of available information, read relevant information, evaluate a suggested solution based on relevant information, solve a basic mathematical problem needed to solve the problem, identify a group of appropriate solutions, identify the best solution for a the problem situation, and identify changes to the problem situation that would change the solution. This set of questions aligns with CAT App Skill Set 2.



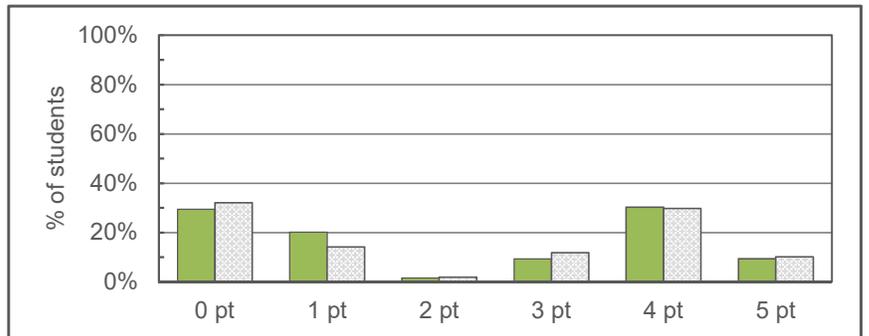
Q13 Identify suitable solutions for a real-world problem using relevant information.

Points are awarded for identifying viable solutions that could solve a real-world problem.



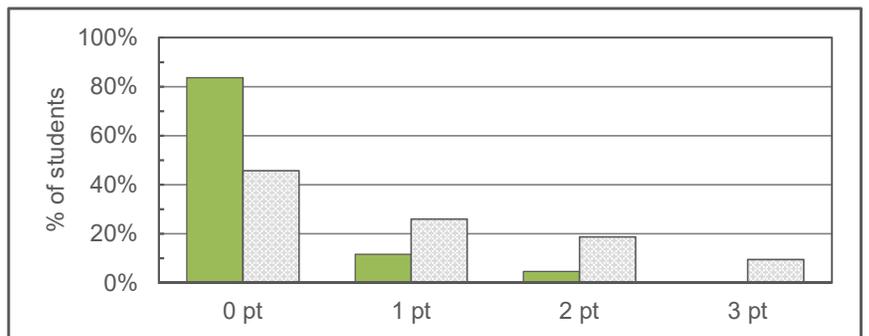
Q14 Identify and explain the best solution for a real-world problem using relevant information.

Points are awarded for identify and explaining the best solution to a real-world problem.



Q15 Explain how changes in a real-world problem situation might affect the solution.

Points are awarded for identifying a number of changes to the real-world problem situation and explaining how the optimal solution would change.



CAT Breakdown: Frequency of Points Awarded for Each Question

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

	Skill Assessed by CAT Question	Points Awarded	Freq.	Institution
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0	25	19.4%
		1	104	80.6%
Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0	50	38.8%
		1	45	34.9%
		2	15	11.6%
		3	19	14.7%
Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0	64	49.6%
		1	34	26.4%
		2	28	21.7%
		3	3	2.3%
Q4	Identify additional information needed to evaluate a hypothesis.	0	88	68.2%
		1	34	26.4%
		2	7	5.4%
		3	0	0.0%
		4	0	0.0%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	0	27	20.9%
		1	102	79.1%
Q6	Provide alternative explanations for spurious associations.	0	19	14.7%
		1	34	26.4%
		2	64	49.6%
		3	12	9.3%
Q7	Identify additional information needed to evaluate a hypothesis.	0	111	86.0%
		1	18	14.0%
		2	0	0.0%
Q8	Determine whether an invited inference is supported by specific information.	0	60	46.5%
		1	69	53.5%
Q9	Provide relevant alternative interpretations for a specific set of results.	0	52	40.3%
		1	74	57.4%
		2	3	2.3%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	0	0.0%
		1	9	7.0%
		2	23	17.8%
		3	55	42.6%
		4	42	32.6%
Q11	Use and apply relevant information to evaluate a problem.	0	44	34.1%
		1	78	60.5%
		2	7	5.4%
Q12	Use basic mathematical skills to help solve a real-world problem.	0	38	29.5%
		1	91	70.5%
Q13	Identify suitable solutions for a real-world problem using relevant information.	0	52	40.3%
		1	45	34.9%
		2	26	20.2%
		3	6	4.7%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	0	38	29.5%
		1	26	20.2%
		2	2	1.6%
		3	12	9.3%
		4	39	30.2%
		5	12	9.3%
Q15	Explain how changes in a real-world problem situation might affect the solution.	0	108	83.7%
		1	15	11.6%
		2	6	4.7%
		3	0	0.0%

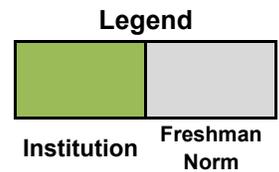
Fresh Norm

37.8%
62.2%
40.6%
34.2%
13.5%
11.7%
47.2%
24.1%
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37.1%
13.0%
9.7%
37.9%
11.1%
2.3%
13.2%
28.3%
7.2%
55.1%
24.6%
14.5%
5.8%

Frequency of Points Awarded on the CAT

Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

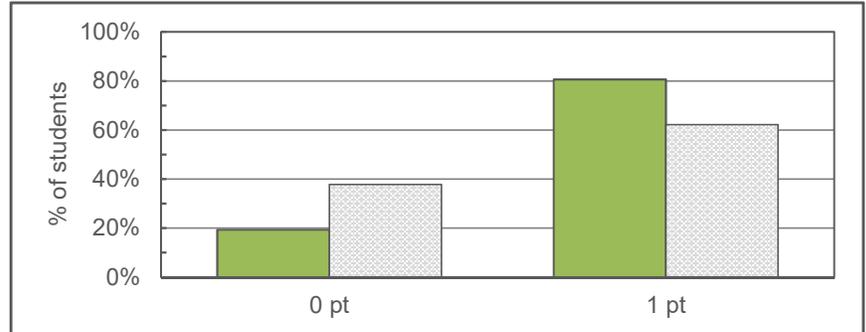
Questions 1-4 present students with a scenario and graph. In this section of questions, students will be asked to summarize the trend of the graph, evaluate the strength of the graph in supporting an argument, provide potential alternative explanations for the trend of the graph, and identify additional information that would be useful to more fully understand the situation. This set of questions aligns with CAT App Skill Set 1.



Fall 2021

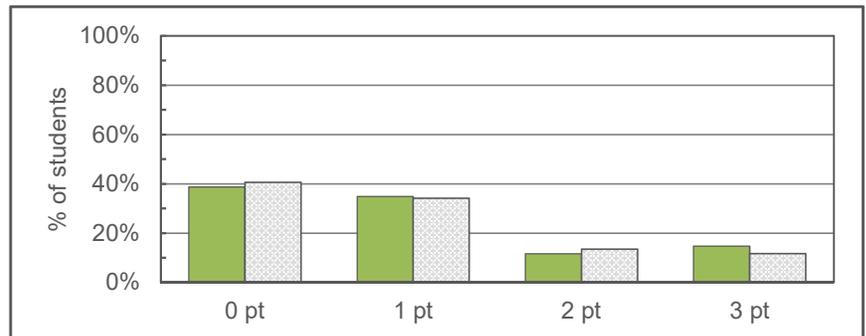
Q1 Summarize the pattern of results in a graph without making inappropriate inferences.

A point is awarded for responses that describe the trend in the graph AND do not attribute the findings to a single cause when there are a variety of potential explanations.



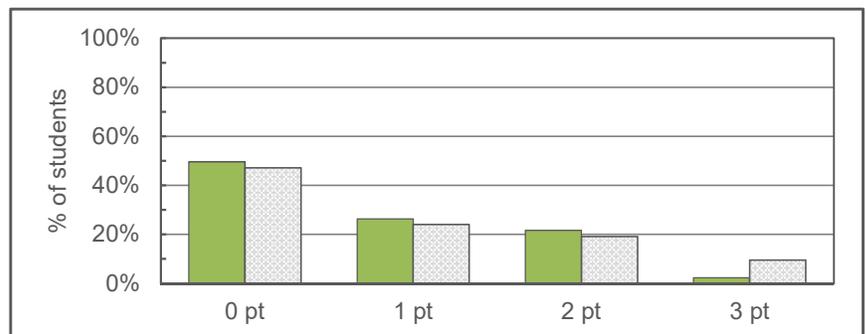
Q2 Evaluate how strongly correlational-type data supports a hypothesis.

Points are awarded for responses that explain the limitations of the correlation observed and the possibility of alternative explanations.



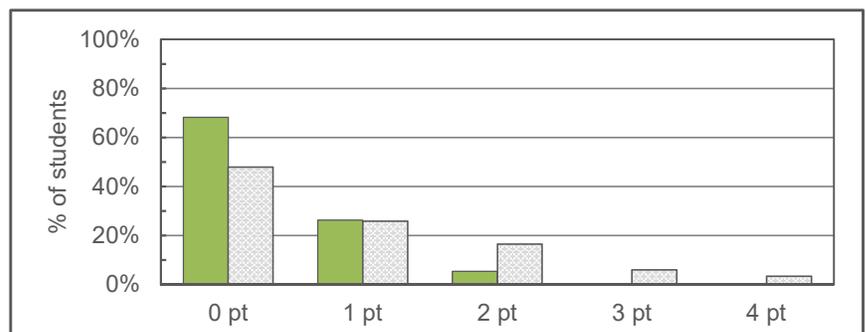
Q3 Provide alternative explanations for a pattern of results that has many possible causes.

Points are awarded for the number of viable alternative explanations provided for the reported findings.



Q4 Identify additional information needed to evaluate a hypothesis.

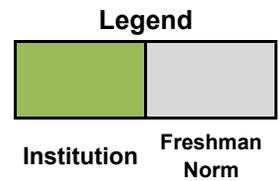
Points are awarded for clearly identifying types of information needed to evaluate competing hypotheses.



Frequency of Points Awarded on the CAT

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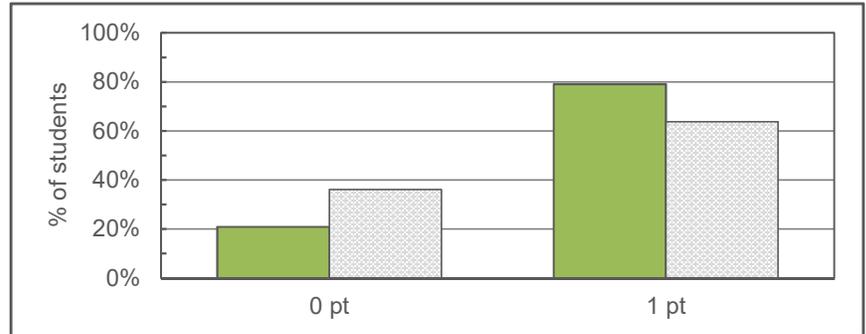
Questions 5-7 present students with a hypothesis and two pieces of evidence. In this section of questions, students will be asked to evaluate the strength of the evidence in supporting a hypothesis, provide potential alternative explanations for the evidence, and identify additional information that would be useful to more fully evaluate the hypothesis. This set of questions aligns with CAT App Skill Set 1.



Fall 2021

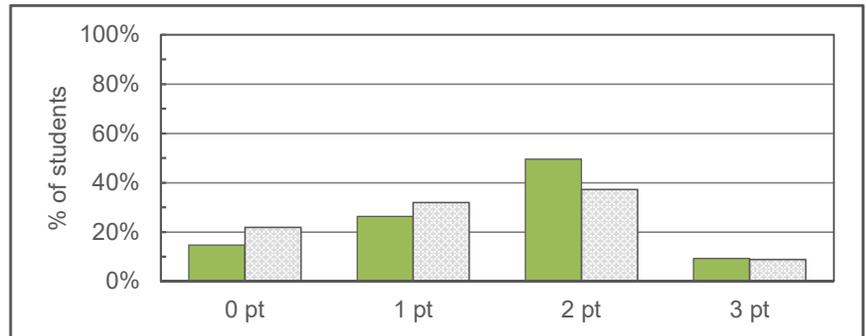
Q5 Evaluate whether spurious information strongly supports a hypothesis.

A point is awarded for recognizing that spurious information does not strongly support a hypothesis.



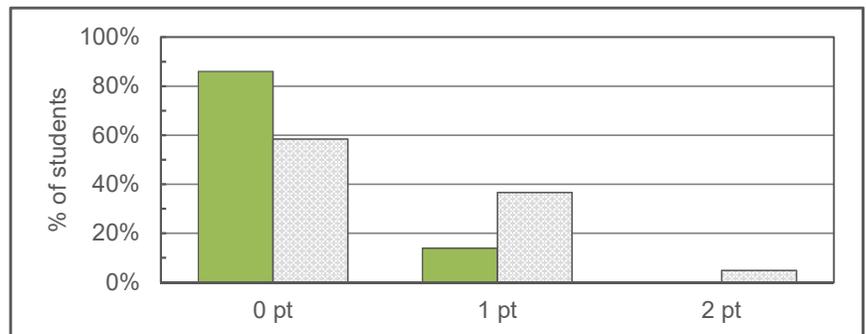
Q6 Provide alternative explanations for spurious associations.

Points are awarded for explaining the spurious nature of the evidence.



Q7 Identify additional information needed to evaluate a hypothesis.

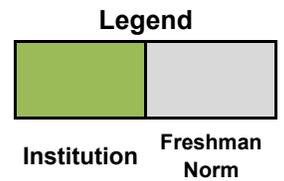
Points are awarded for clearly identifying new information that needs to be obtained to evaluate the hypothesis.



Frequency of Points Awarded on the CAT

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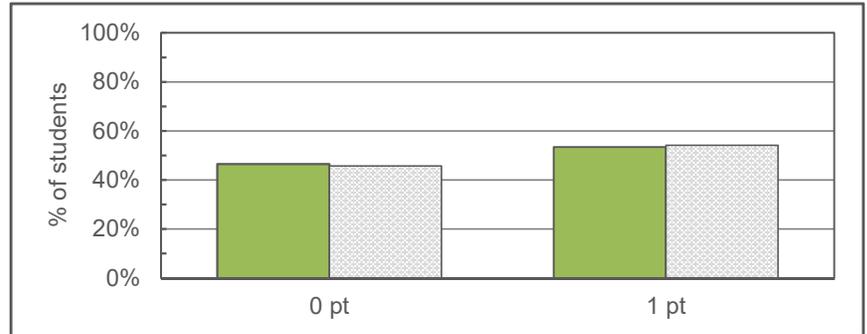
Questions 8-9 present students with the results of a survey and a corresponding marketing claim. In this section of questions, students will be asked to evaluate whether the marketing claim is supported by the results of the survey and to provide potential alternative explanations for the results of the survey. This set of questions aligns with CAT App Skill Set 1.



Fall 2021

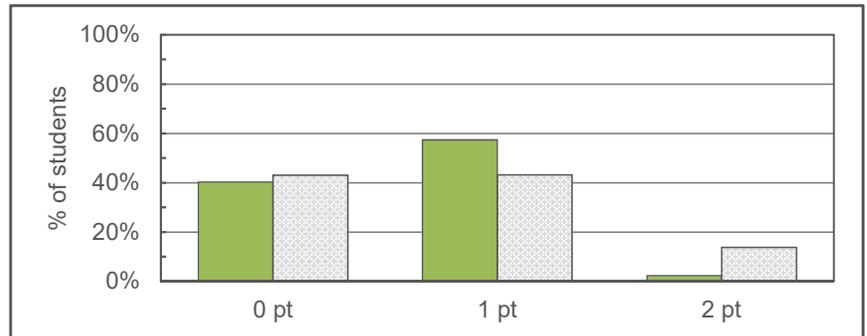
Q8 Determine whether an invited inference is supported by specific information.

A point is awarded for indicating the provided evidence does not strongly support the hypothesis.



Q9 Provide relevant alternative interpretations for a specific set of results.

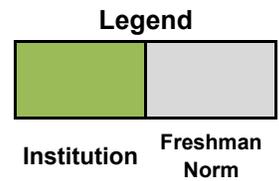
Points are awarded for providing alternative interpretations of the findings.



Frequency of Points Awarded on the CAT

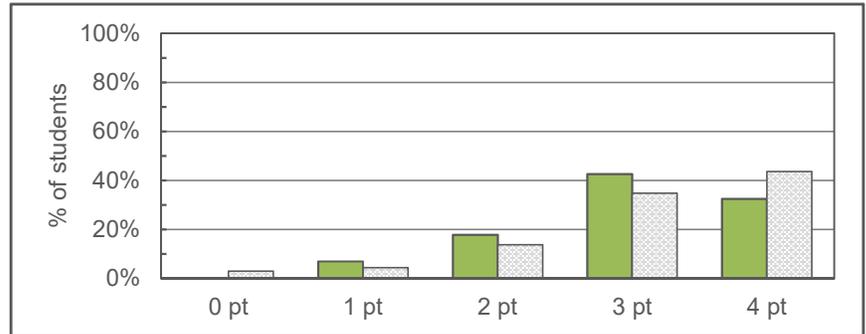
Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

Questions 10-15 present students with a real-world problem-solving task. In this section of questions, students will be asked to evaluate the relevance of available information, read relevant information, evaluate a suggested solution based on relevant information, solve a basic mathematical problem needed to solve the problem, identify a group of appropriate solutions, identify the best solution for a the problem situation, and identify changes to the problem situation that would change the solution. This set of questions aligns with CAT App Skill Set 2.



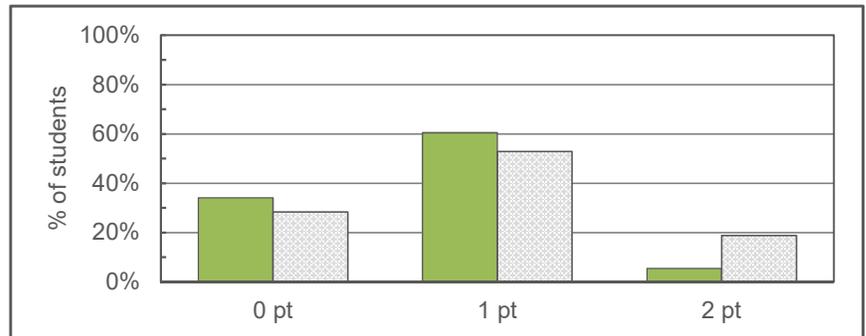
Q10 Separate relevant from irrelevant information when solving a real-world problem.

Points are awarded for correctly identifying information relevant to solving the problem based on the descriptive titles of the available information.



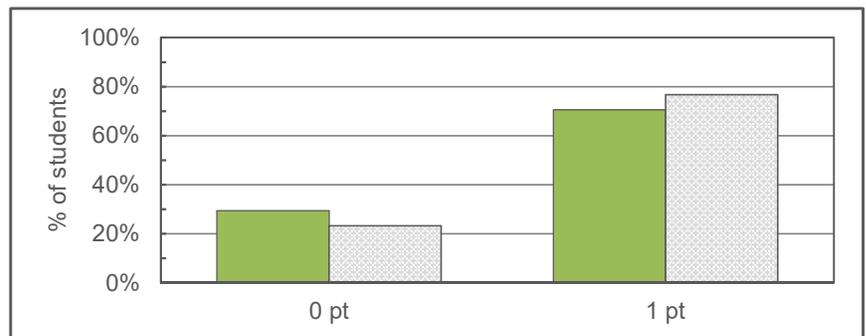
Q11 Use and apply relevant information to evaluate a problem.

Points are awarded for applying relevant information from the additional information to the problem.



Q12 Use basic mathematical skills to help solve a real-world problem.

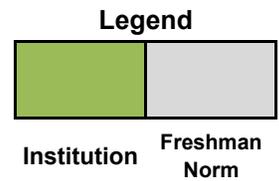
A points is awarded for performing a basic mathematical calculation needed to help solve a real-world problem.



Frequency of Points Awarded on the CAT

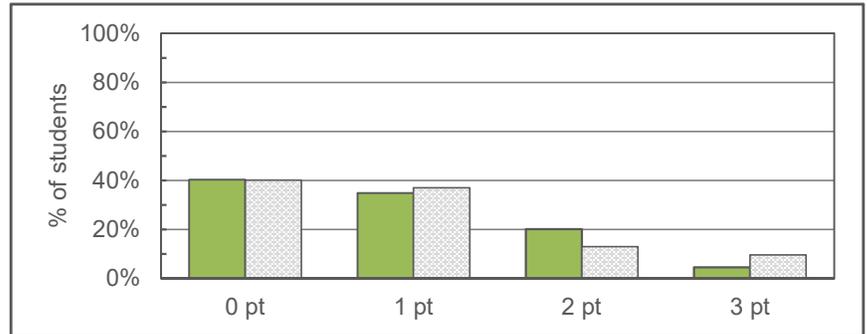
Sam Houston State University: Fall 2021 & Spring 2022 - College of Humanities and Social Sciences

Questions 10-15 present students with a real-world problem-solving task. In this section of questions, students will be asked to evaluate the relevance of available information, read relevant information, evaluate a suggested solution based on relevant information, solve a basic mathematical problem needed to solve the problem, identify a group of appropriate solutions, identify the best solution for a the problem situation, and identify changes to the problem situation that would change the solution. This set of questions aligns with CAT App Skill Set 2.



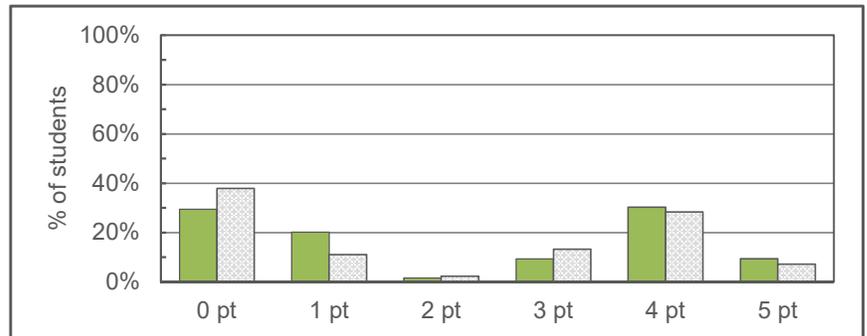
Q13 Identify suitable solutions for a real-world problem using relevant information.

Points are awarded for identifying viable solutions that could solve a real-world problem.



Q14 Identify and explain the best solution for a real-world problem using relevant information.

Points are awarded for identify and explaining the best solution to a real-world problem.



Q15 Explain how changes in a real-world problem situation might affect the solution.

Points are awarded for identifying a number of changes to the real-world problem situation and explaining how the optimal solution would change.

