

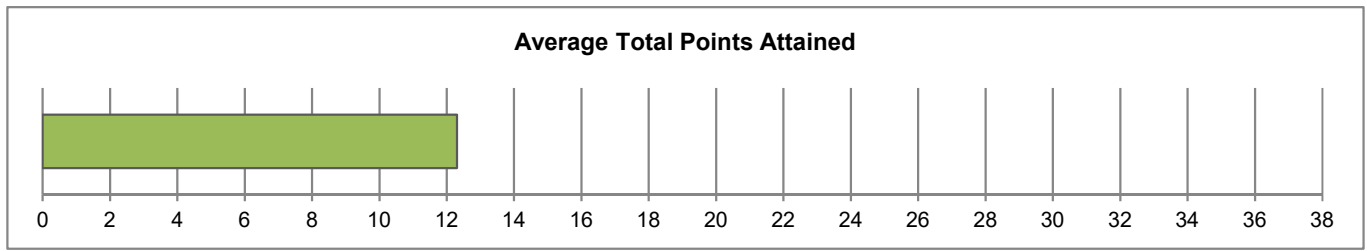
Sam Houston State University

CAT Institutional Report

Fall 2023 & Spring 2024 - ALL STUDENTS

CAT Overview: Descriptive Statistics for CAT Total Score
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

	N	Min.	Max.	Mean	Std. Dev
CAT Total Score	520	3.00	25.00	12.30	4.04



	N	Min.	Max.	Mean	Std. Dev
Time Spent (in minutes)	520	7	120	34	15

CAT Demographics: Descriptive Statistics for Sample

		Freq.	Freq. %
Gender	Male	159	31.2%
	Female	351	68.8%
Class Standing	Freshman	4	0.8%
	Sophomore	31	6.0%
	Junior	136	26.4%
	Senior	345	66.9%
Class	Undergraduate	516	99.2%
	Graduate	4	0.8%
Age	≤ 20 years	117	23.1%
	21-25 years	358	70.6%
	≥ 26 years	32	6.3%

		Freq.	Freq. %
Race**	White	371	71.3%
	Black or African American	77	14.8%
	American Indian or Alaska Native	11	2.1%
	Asian	22	4.2%
	Native Hawaiian or Other Pacific Islander	1	0.2%
	Other Race	31	6.0%

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

		Freq.	Freq. %
Proficiency with the English Language*	Excellent	410	78.8%
	Very Good	81	15.6%
	Good	27	5.2%
	Fair	2	0.4%
	Poor	0	0.0%

* Self-rated

	Freq.	Freq. %
Spanish/Hispanic/Latino Ethnicity	192	36.9%
Considered English primary language?	488	93.8%

CAT Breakdown: Frequency of Points Awarded for Each Question
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

	Skill Assessed by CAT Question	Points Awarded	Freq.	Institution
Q1	Summarize the pattern of results in a graph without making inappropriate inferences.	0	123	23.7%
		1	397	76.3%
Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0	248	47.7%
		1	179	34.4%
		2	37	7.1%
		3	56	10.8%
Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0	317	61.0%
		1	121	23.3%
		2	77	14.8%
		3	5	1.0%
Q4	Identify additional information needed to evaluate a hypothesis.	0	341	65.6%
		1	160	30.8%
		2	17	3.3%
		3	2	0.4%
		4	0	0.0%
Q5	Evaluate whether spurious information strongly supports a hypothesis.	0	193	37.1%
		1	327	62.9%
Q6	Provide alternative explanations for spurious associations.	0	140	26.9%
		1	161	31.0%
		2	195	37.5%
		3	24	4.6%
Q7	Identify additional information needed to evaluate a hypothesis.	0	483	92.9%
		1	35	6.7%
		2	2	0.4%
Q8	Determine whether an invited inference is supported by specific information.	0	288	55.4%
		1	232	44.6%
Q9	Provide relevant alternative interpretations for a specific set of results.	0	248	47.7%
		1	257	49.4%
		2	15	2.9%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	4	0.8%
		1	21	4.0%
		2	93	17.9%
		3	256	49.2%
		4	146	28.1%
Q11	Use and apply relevant information to evaluate a problem.	0	149	28.7%
		1	338	65.0%
		2	33	6.3%
Q12	Use basic mathematical skills to help solve a real-world problem.	0	151	29.0%
		1	369	71.0%
Q13	Identify suitable solutions for a real-world problem using relevant information.	0	180	34.6%
		1	247	47.5%
		2	70	13.5%
		3	23	4.4%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	0	250	48.1%
		1	97	18.7%
		2	14	2.7%
		3	46	8.8%
		4	104	20.0%
		5	9	1.7%
		0	468	90.0%

Q15	Explain how changes in a real-world problem situation might affect the solution.	1	36	6.9%
		2	15	2.9%
		3	1	0.2%

Institutional/Departmental Profile

Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.	0.76	76%
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0.81	27%
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.56	19%
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.38	10%
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.63	63%
		X	X	Q6	Provide alternative explanations for spurious associations.	1.20	40%
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.08	4%
X				Q8	Determine whether an invited inference is supported by specific information.	0.45	45%
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.55	28%
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.00	75%
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.78	39%
	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.	0.88	29%
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	1.39	28%
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.13	4%
CAT Total Score						12.30	32%

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 2023 & Spring 2024 - ALL STUDENTS

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.	0.76	0.62	***	+0.31
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0.81	0.96	***	-0.16
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.56	0.91	***	-0.39
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.38	0.91	***	-0.61
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.63	0.64		
		X	X	Q6	Provide alternative explanations for spurious associations.	1.20	1.33	**	-0.15
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.08	0.47	***	-0.85
X				Q8	Determine whether an invited inference is supported by specific information.	0.45	0.54	***	-0.19
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.55	0.71	***	-0.25
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.00	3.12	**	-0.13
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.78	0.91	***	-0.21
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.71	0.77	**	-0.13
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.88	0.92		
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	1.39	2.04	***	-0.37
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.13	0.71	***	-0.81
CAT Total Score						12.30	15.55	***	-0.63

^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.

Senior CAT Means Comparison Report

Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.	0.76	0.70	**	+ .15
X			X	Q2	Evaluate how strongly correlational-type data supports a hypothesis.	0.81	1.20	***	-.38
		X	X	Q3	Provide alternative explanations for a pattern of results that has many possible causes.	0.56	1.15	***	-.64
	X	X	X	Q4	Identify additional information needed to evaluate a hypothesis.	0.38	1.10	***	-.78
X				Q5	Evaluate whether spurious information strongly supports a hypothesis.	0.63	0.75	***	-.26
		X	X	Q6	Provide alternative explanations for spurious associations.	1.20	1.53	***	-.38
	X	X	X	Q7	Identify additional information needed to evaluate a hypothesis.	0.08	0.56	***	-.99
X				Q8	Determine whether an invited inference is supported by specific information.	0.45	0.66	***	-.44
		X	X	Q9	Provide relevant alternative interpretations for a specific set of results.	0.55	0.85	***	-.46
X	X			Q10	Separate relevant from irrelevant information when solving a real-world problem.	3.00	3.13	**	-.14
X	X		X	Q11	Use and apply relevant information to evaluate a problem.	0.78	0.95	***	-.29
	X			Q12	Use basic mathematical skills to help solve a real-world problem.	0.71	0.82	***	-.25
X	X			Q13	Identify suitable solutions for a real-world problem using relevant information.	0.88	1.10	***	-.24
X	X		X	Q14	Identify and explain the best solution for a real-world problem using relevant information.	1.39	2.24	***	-.47
	X	X	X	Q15	Explain how changes in a real-world problem situation might affect the solution.	0.13	0.92	***	-1.02
CAT Total Score						12.30	17.64	***	-1.04

^a National user norms updated Fall 2019

^b * p<.05 **p<.01 ***p<.001 (2 –tailed) Does not Account for entering ACT/SAT.

^c Mean difference divided by pooled group standard deviation. (0.1 - 0.3 = small effect; 0.3 - 0.5 = moderate effect; >0.5 = large effect)

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		0	468	90.0%

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		2	15	2.9%
		3	1	0.2%

**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%
8.8%
4.8%
25.1%
74.9%
12.6%
33.0%
43.3%
11.0%
51.9%
40.5%
4.6%
33.8%
66.2%
34.5%
46.2%
19.2%
2.0%
4.2%
14.2%
38.3%
41.2%
26.1%
52.4%
21.6%
18.3%
81.7%
32.7%
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13.1%
32.1%
14.2%
1.9%
11.8%
29.7%
10.2%
45.7%

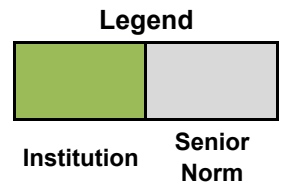
26.0%

18.8%

9.5%

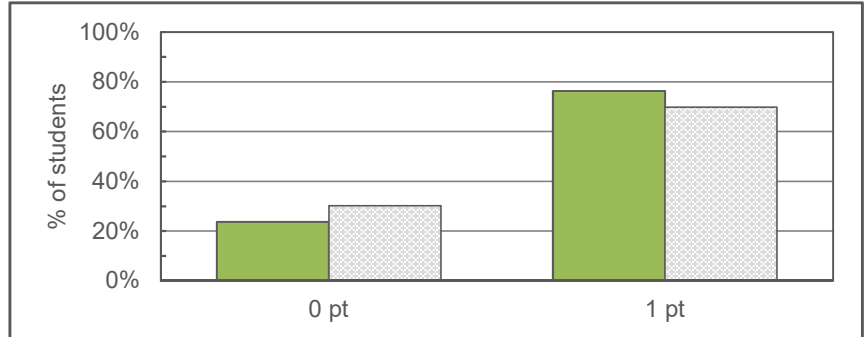
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



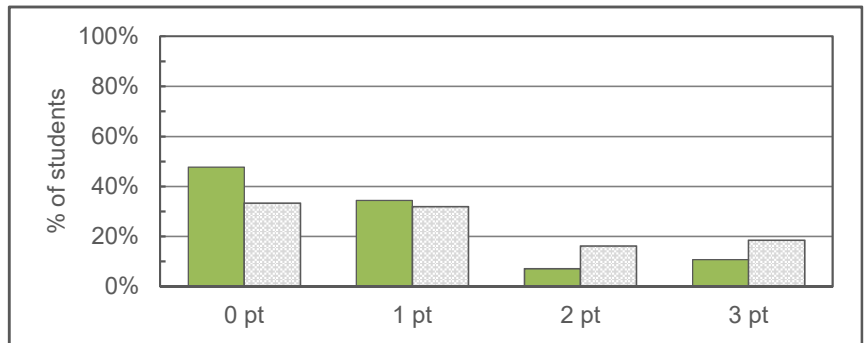
Q1 Summarize the pattern of results in a graph without making inappropriate inferences.

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.



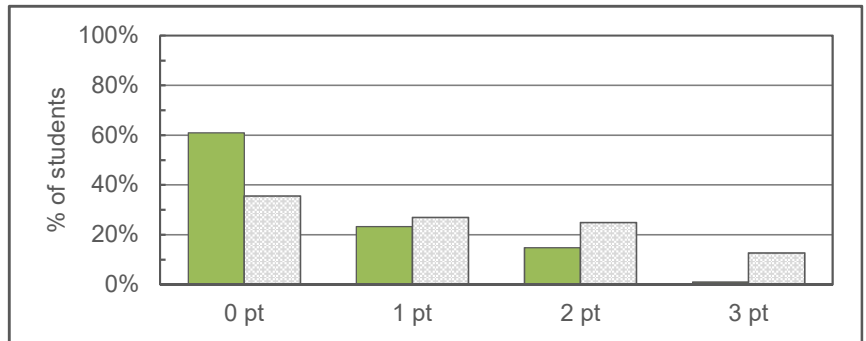
Q2 Evaluate how strongly correlational-type data supports a hypothesis.

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



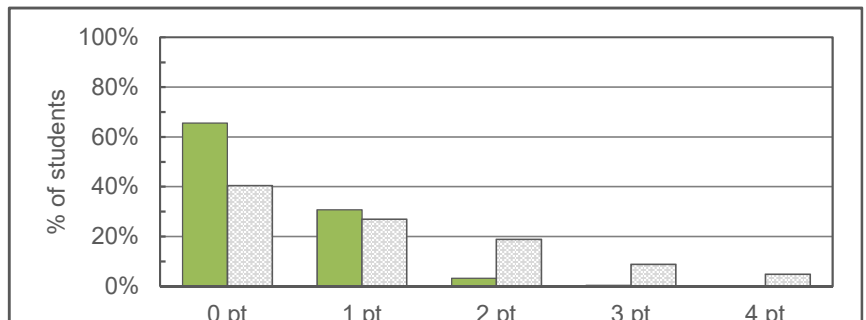
Q3 Provide alternative explanations for a pattern of results that has many possible causes.

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



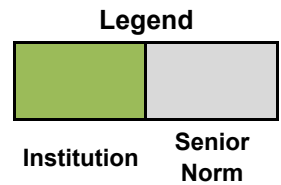
Q4 Identify additional information needed to evaluate a hypothesis.

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



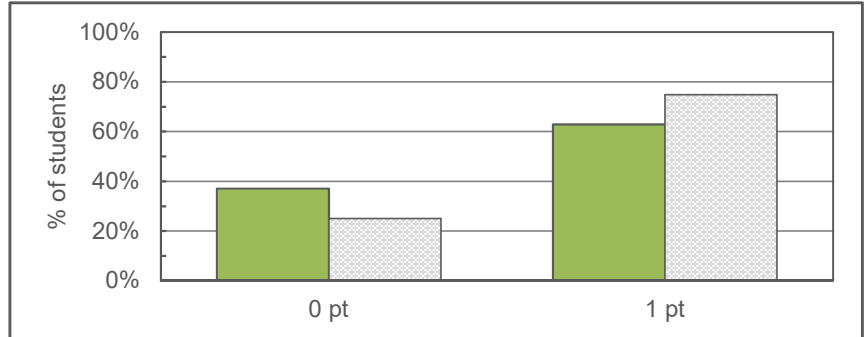
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



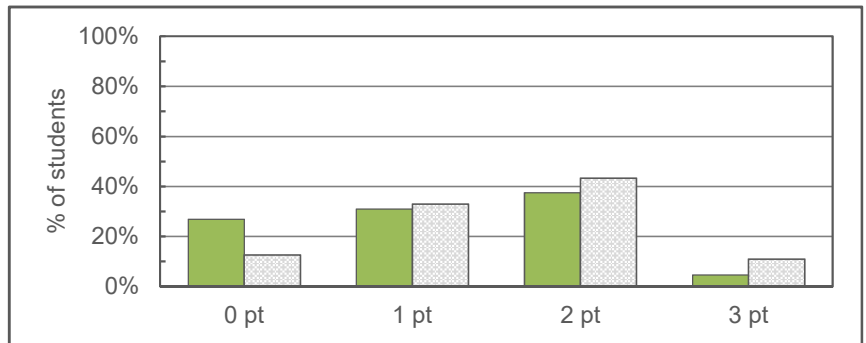
Q5 Evaluate whether spurious information strongly supports a hypothesis.

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



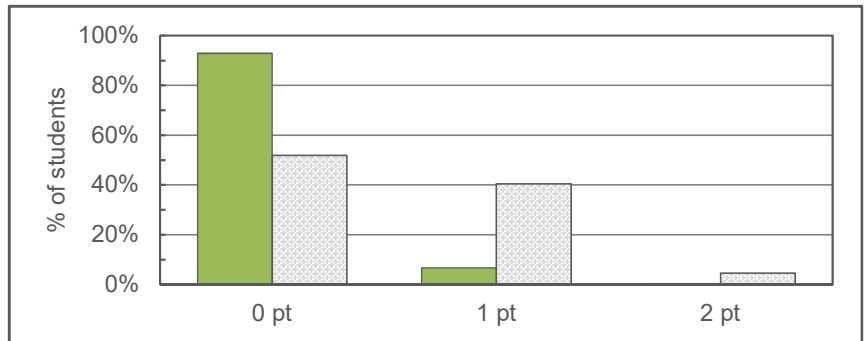
Q6 Provide alternative explanations for spurious associations.

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



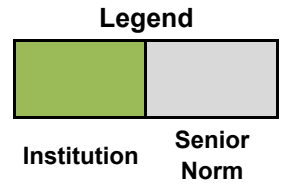
Q7 Identify additional information needed to evaluate a hypothesis.

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



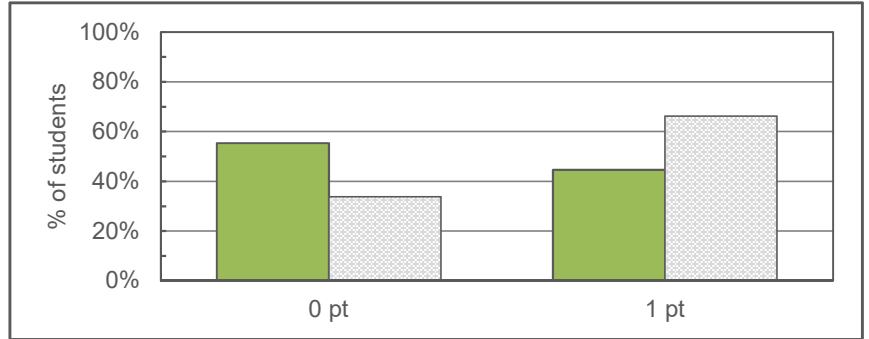
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



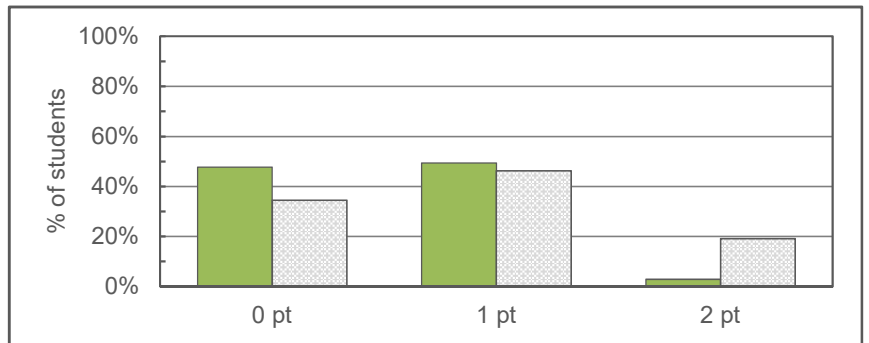
Q8 Determine whether an invited inference is supported by specific information.

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



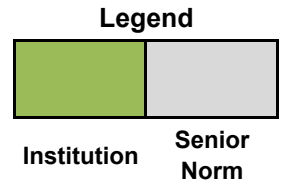
Q9 Provide relevant alternative interpretations for a specific set of results.

Points are awarded for providing alternative interpretations of the findings.



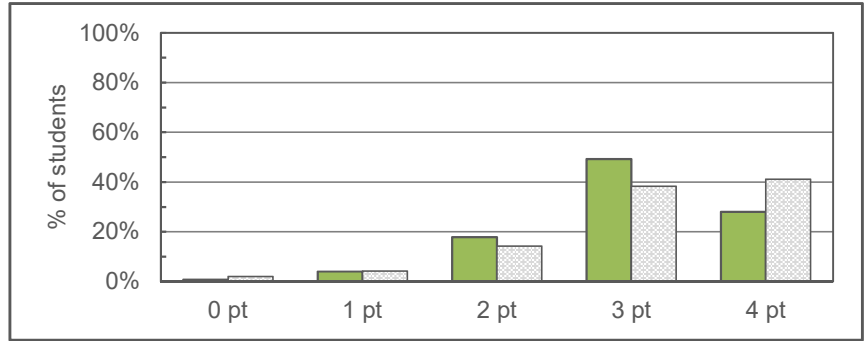
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



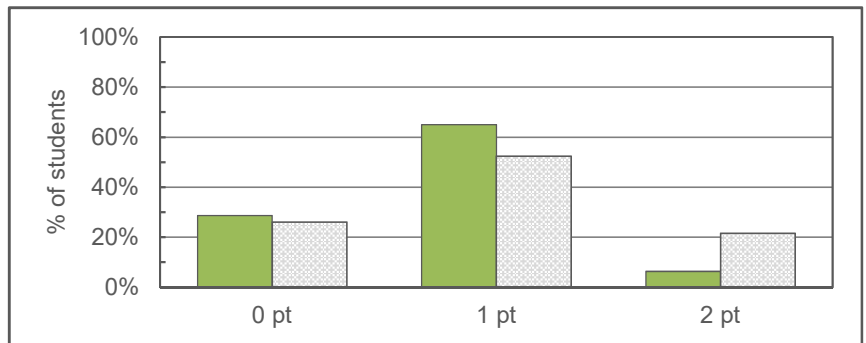
Q10 Separate relevant from irrelevant information when solving a real-world problem.

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



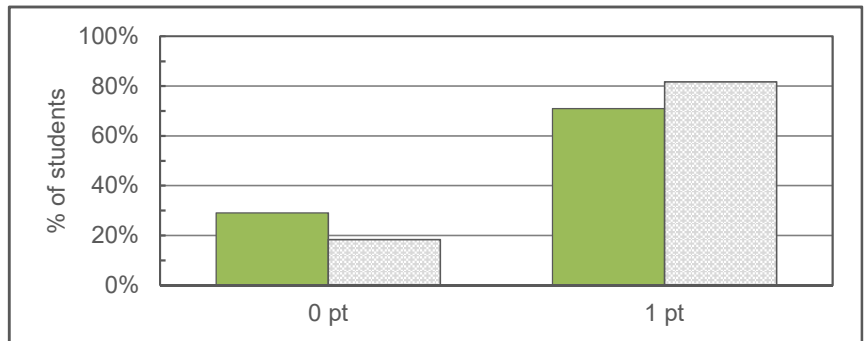
Q11 Use and apply relevant information to evaluate a problem.

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



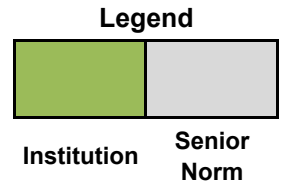
Q12 Use basic mathematical skills to help solve a real-world problem.

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



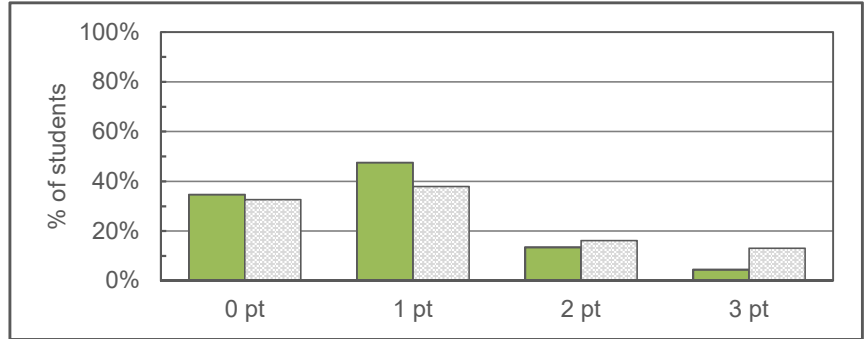
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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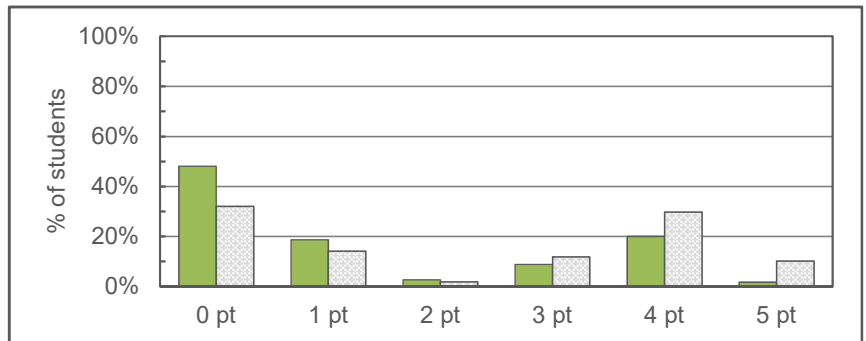
Q13 Identify suitable solutions for a real-world problem using relevant information.

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



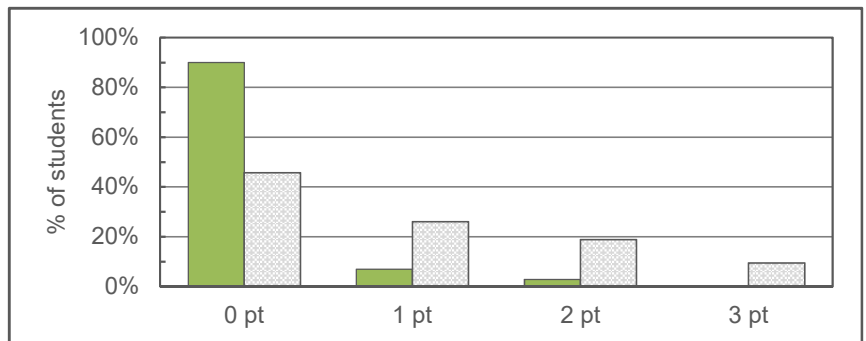
Q14 Identify and explain the best solution for a real-world problem using relevant information.

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.



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		2	15	2.9%
Q10	Separate relevant from irrelevant information when solving a real-world problem.	0	4	0.8%
		1	21	4.0%
		2	93	17.9%
		3	256	49.2%
		4	146	28.1%
Q11	Use and apply relevant information to evaluate a problem.	0	149	28.7%
		1	338	65.0%
		2	33	6.3%
Q12	Use basic mathematical skills to help solve a real-world problem.	0	151	29.0%
		1	369	71.0%
Q13	Identify suitable solutions for a real-world problem using relevant information.	0	180	34.6%
		1	247	47.5%
		2	70	13.5%
		3	23	4.4%
Q14	Identify and explain the best solution for a real-world problem using relevant information.	0	250	48.1%
		1	97	18.7%
		2	14	2.7%
		3	46	8.8%
		4	104	20.0%
		5	9	1.7%
		0	468	90.0%

Q15	Explain how changes in a real-world problem situation might affect the solution.	1	36	6.9%
		2	15	2.9%
		3	1	0.2%

Fresh Norm

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40.6%
34.2%
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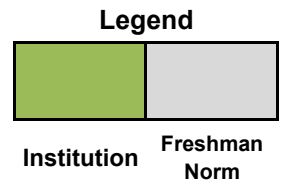
24.6%

14.5%

5.8%

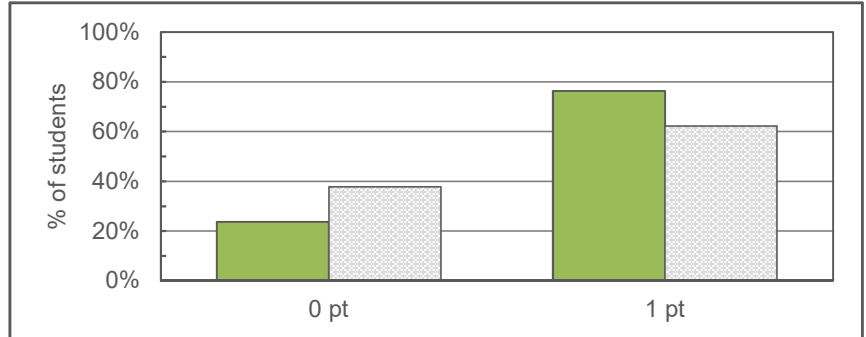
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



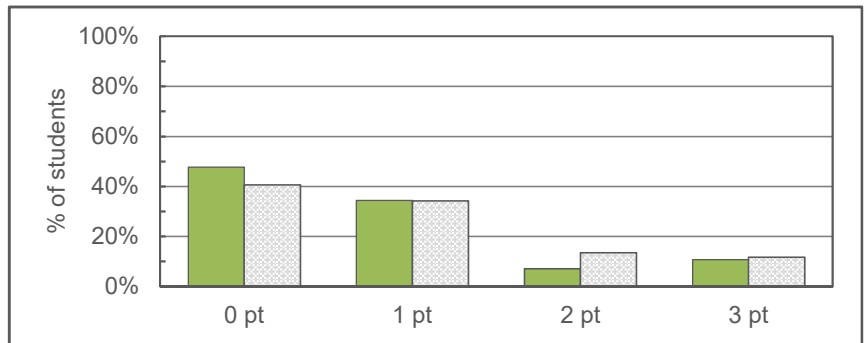
Q1 Summarize the pattern of results in a graph without making inappropriate inferences.

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.



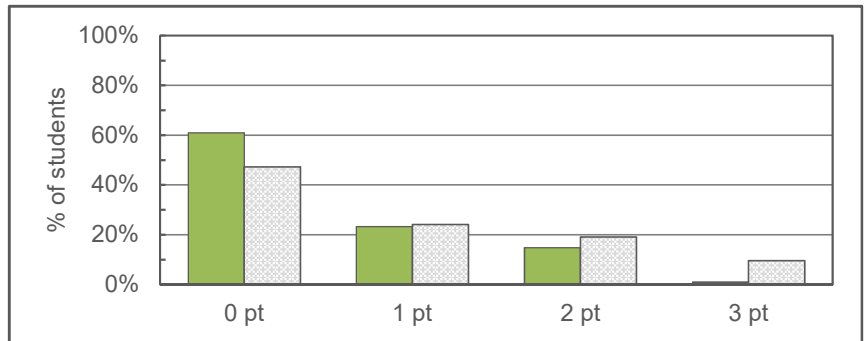
Q2 Evaluate how strongly correlational-type data supports a hypothesis.

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



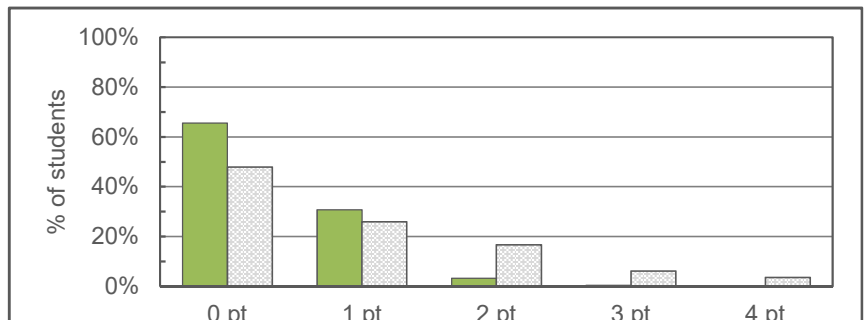
Q3 Provide alternative explanations for a pattern of results that has many possible causes.

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



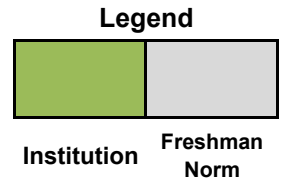
Q4 Identify additional information needed to evaluate a hypothesis.

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



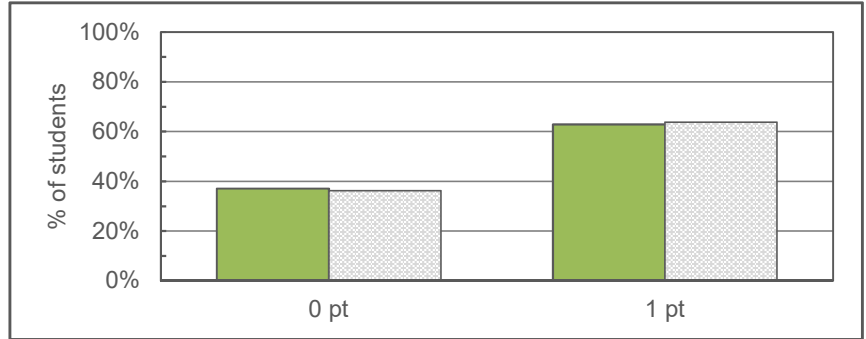
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



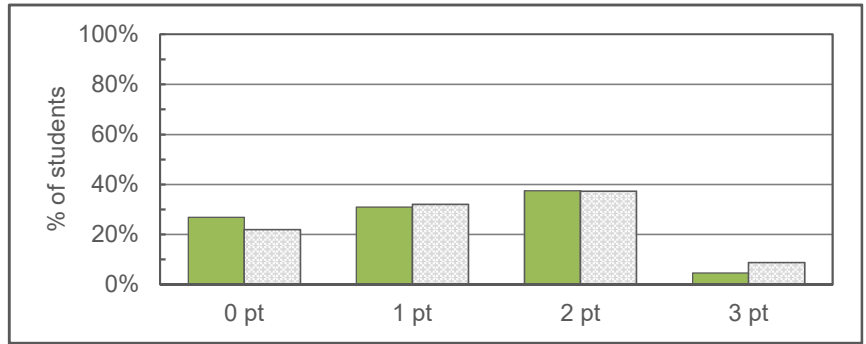
Q5 Evaluate whether spurious information strongly supports a hypothesis.

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



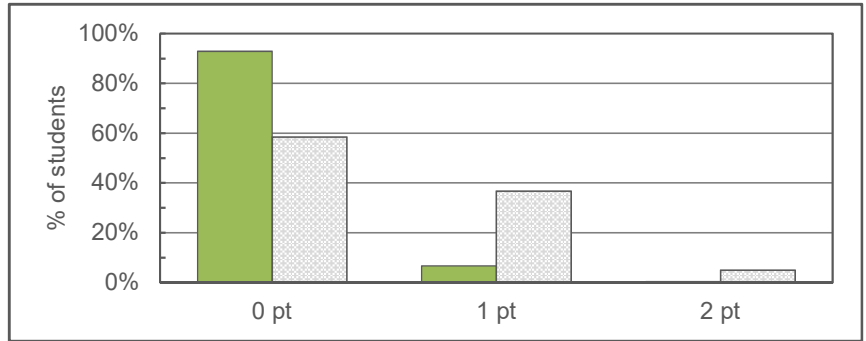
Q6 Provide alternative explanations for spurious associations.

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



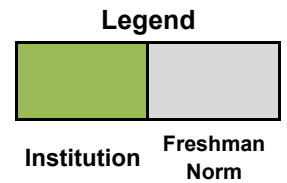
Q7 Identify additional information needed to evaluate a hypothesis.

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



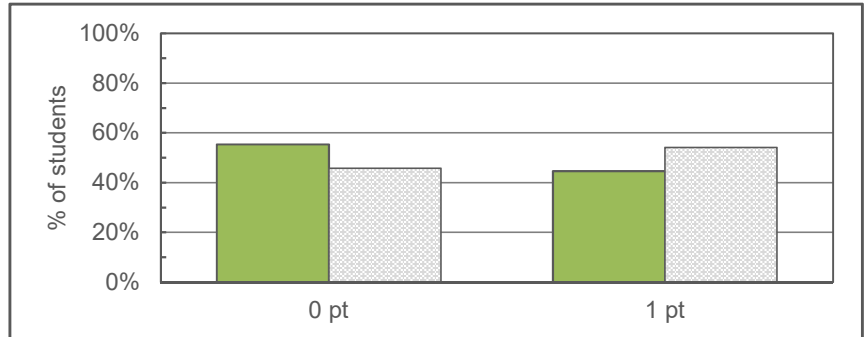
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



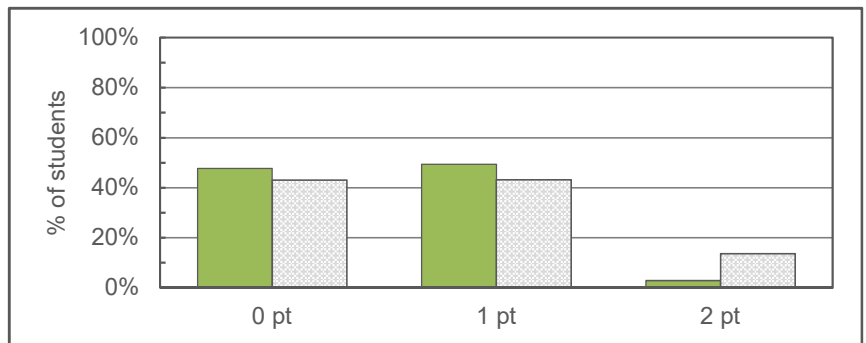
Q8 Determine whether an invited inference is supported by specific information.

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



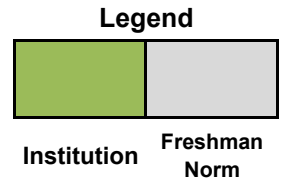
Q9 Provide relevant alternative interpretations for a specific set of results.

Points are awarded for providing alternative interpretations of the findings.



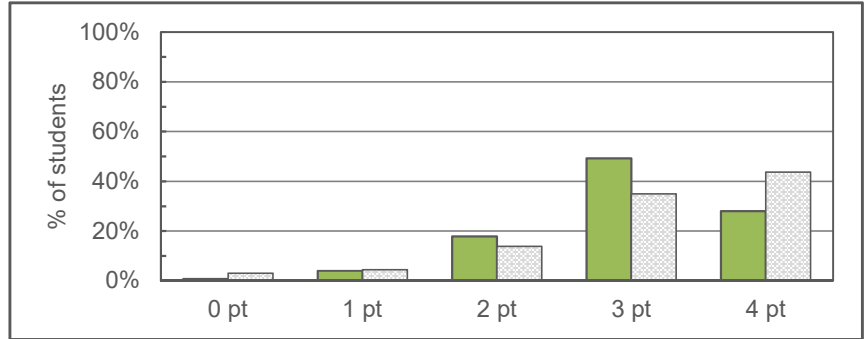
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



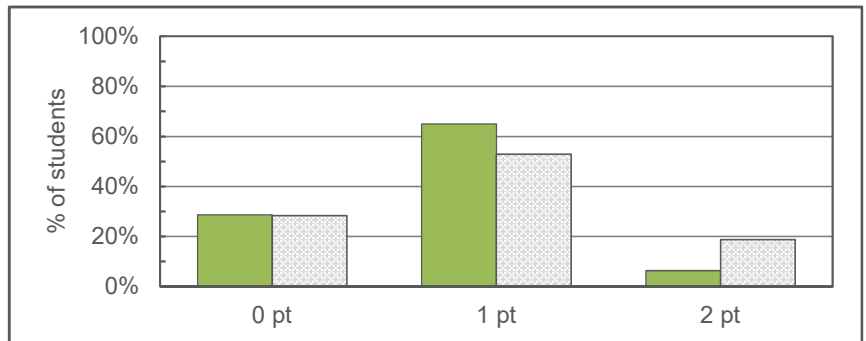
Q10 Separate relevant from irrelevant information when solving a real-world problem.

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



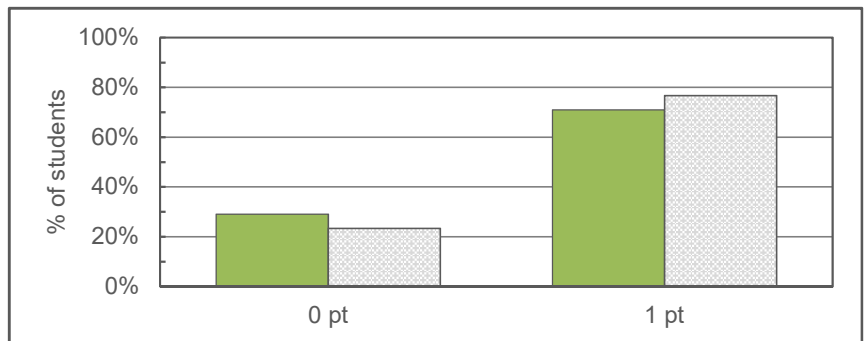
Q11 Use and apply relevant information to evaluate a problem.

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



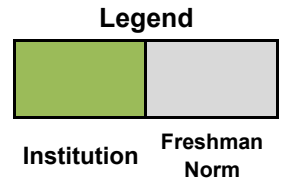
Q12 Use basic mathematical skills to help solve a real-world problem.

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



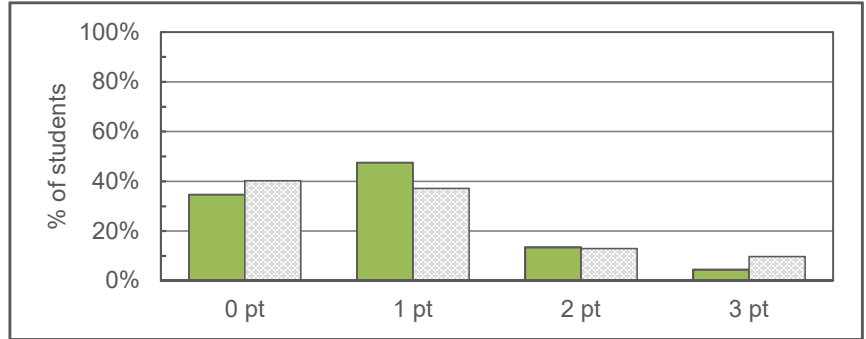
Frequency of Points Awarded on the CAT
Sam Houston State University: Fall 2023 & Spring 2024 - ALL STUDENTS

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.



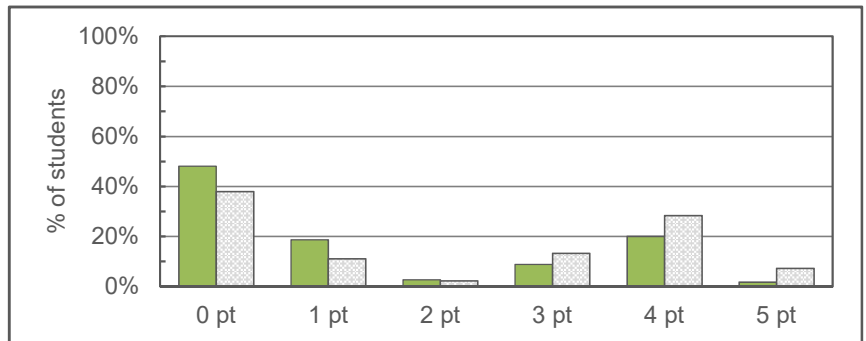
Q13 Identify suitable solutions for a real-world problem using relevant information.

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.

