

Mrs. Sharpe's College Project
Heritage High School
Honors Pre-Calculus
Spring 2020



Step 1: Identify Criteria and Measures

Criteria	Measures
Academics	Average GPA for incoming Freshman
	Number of Math based Majors
Cost	Tuition
	Meal Plan
Social Life	Athletics
	Size (Undergrad)
Location	Near Home
	Weather

Step 2: Collect Data

Criteria	Measures	Carolina	Georgia	Gonzaga	Florida State
Academics	Average GPA	4.66	3.98	3.78	3.95
	Number of Math-based Majors	5	6	4	5
Cost	Tuition	\$9,005	\$30,392	\$42,370	\$21,673
	Meal Plan (per semester)	\$2,236	\$3,956	\$5,910	\$1,999
Social Life	Athletics	Division 1	Division 1	Division 1	Division 1
	Size (Undergrad)	18,523	27,951	5,192	32,929
Location	Near Home	31.6 miles	363 miles	2,565 miles	633 miles
	Weather	Mild	Mild	Cold	Hot

Step 3: Find the Range of Each Measure

Measures	Scale Range	Type
Average GPA	Below 4.0	Categorical
	4.0 +	
Number of Math-based Majors	1-4	Categorical
	5+	
Tuition	Under \$10,000	Categorical
	\$10,001 - \$25,000	
	Over \$25,000	
Meal Plan (per semester)	Under \$2,000	Categorical
	\$2,001 - \$3,000	
	Over \$3,000	
Athletics	Division 1	Continuous
Size (Undergrad)	Under 20,000 Students	Categorical
	20,001 - 30,000	
	Over 30,000 students	
Near Home	Under 100 miles	Categorical
	100-300 miles	
	Over 300 miles	
Weather	Cold	Categorical
	Mild	
	Hot	

Measures	Carolina	Georgia	Gonzaga	Florida State
Average GPA	1	2	2	2
Number of Math-based Majors	1	1	2	1
Tuition	1	3	3	2
Meal Plan	2	3	3	1
Athletics	Division 1	Division 1	Division 1	Division 1
Size (Undergrad)	1	2	1	3
Near Home	1	3	3	3
Weather	1	1	2	3

Step 4: Rescale Each Measure to a Common Unit

Measures	Carolina	Georgia	Gonzaga	Florida State
Average GPA	1	0.5	0.5	0.5
Number of Math-based Majors	1	1	0.5	1
Tuition	1	0.33	0.33	0.67
Meal Plan	0.67	0.33	0.33	1
Athletics	1	1	1	1
Size (Undergrad)	1	0.67	1	0.33
Near Home	1	0.33	0.33	0.33
Weather	1	1	0.67	0.33

Step 5: Conduct an Interview to Calculate Weights

Criteria	Measures	Least Preferred	Most Preferred	Rank Order	Points (1-100)	Weight (Points/Sum)
Academics	Average GPA	3.7	4.66	2	90	0.158
	Number of Math-based Majors	4	6	6	60	0.105
Cost	Tuition	\$37,890	\$9,005	1	100	0.175
	Meal Plan	\$3,956	\$1,999	8	40	0.070
Social Life	Athletics	Division 1	Division 1	3	85	0.149
	Size (Undergrad)	37,988	18,523	7	50	0.088
Location	Near Home	746 miles	31.6 miles	4	75	0.132
	Weather	Hot	Mild	5	70	0.123
Sum:					570	1.000

Step 6: Calculate Total Scores

Measures	Weight (Points/Sum)	Carolina	Georgia	Gonzaga	Florida State
Average GPA	0.158	0.158	0.079	0.079	0.079
Number of Math-based Majors	0.105	0.105	0.105	0.053	0.105
Tuition	0.175	0.175	0.058	0.058	0.117
Meal Plan	0.070	0.047	0.023	0.023	0.070
Athletics	0.149	0.149	0.149	0.149	0.149
Size (Undergrad)	0.088	0.088	0.059	0.088	0.029
Near Home	0.132	0.132	0.044	0.044	0.044
Weather	0.123	0.123	0.123	0.082	0.041
Sum:	1.000	0.977	0.640	0.518	0.634

Step 7: Interpret Results

Based on my results,.....