

Ms. Winstead's College Project  
Heritage High School  
Honors Pre-Calculus  
Fall 2014



Step 1: Identify Criteria and Measures

Criteria	Measures
Academics	Average SAT Score/GPA
	US News & World Report Ranking
Cost	Tuition
	Room & Board
Social Life	Athletics
	Size (Undergrad)
Location	Near Home
	City or College Town

Step 2: Collect Data

Criteria	Measures	Carolina	Georgia	Michigan State	Florida State
Academics	Average SAT Score/GPA	1980/4.5	1930/3.9	1690/3.6	1860/4.0
	US News & World Report Ranking	#30	#62	#85	#95
Cost	Tuition	\$8,340	\$29,046	\$35,026	\$21,678
	Room & Board	\$10,008	\$5,290	\$9,204	\$4,048
Social Life	Athletics	Division 1	Division 1	Division 1	Division 1
	Size (Undergrad)	18,579	26,215	37,988	31,851
Location	Near Home	31.6 miles	363 miles	746 miles	633 miles
	City or College Town	College Town	College Town	College Town	City

Step 3: Find the Range of Each Measure

Measures	Scale Range	Type
Average SAT Score/GPA	1600 - 2000/3.5 - 4.5	Continuous
US News & World Report Ranking	#1-50	Categorical
	#51-100	
Tuition	Under \$8000	Categorical
	\$8,001 - \$10,000	
	Over \$10,000	
Room & Board	Under \$5,000	Categorical
	\$5,001 - \$9,000	
	Over \$9,000	
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	
City or College Town	City	Categorical
	College Town	

Measures	Carolina	Georgia	Michigan State	Florida State
Average SAT Score/GPA	1980/4.5	1930/3.9	1690/3.6	1860/4.0
US News & World Report Ranking	1	2	2	2
Tuition	2	3	3	1
Room & Board	3	2	3	1
Athletics	Division 1	Division 1	Division 1	Division 1
Size (Undergrad)	1	2	3	3
Near Home	1	3	3	3
City or College Town	1	1	1	2

Step 4: Rescale Each Measure to a Common Unit

Measures	Carolina	Georgia	Michigan State	Florida State
Average SAT Score/GPA	0.950	0.825	0.225	0.65
US News & World Report Ranking	1	0.5	0.5	0.5
Tuition	0.67	0.33	0.33	1
Room & Board	0.33	0.67	0.33	1
Athletics	1	1	1	1
Size (Undergrad)	1	0.67	0.33	0.33
Near Home	1	0.33	0.33	0.33
City or College Town	1	1	1	0.5

Step 5: Conduct an Interview to Calculate Weights

Criteria	Measures	Least Preferred	Most Preferred	Rank Order	Points (1-100)	Weight (Points/Sum)
<b>Academics</b>	Average SAT Score/GPA	1690/4.0	1980/4.5	3	80	0.140
	US News & World Report Ranking	#95	#30	8	40	0.070
<b>Cost</b>	Tuition	\$35,026	\$6,512	1	100	0.175
	Room & Board	\$10,008	\$4,048	2	90	0.158
<b>Social Life</b>	Athletics	Division 1	Division 1	4	75	0.132
	Size (Undergrad)	37,988	18,579	6	60	0.105
<b>Location</b>	Near Home	746 miles	31.6 miles	5	70	0.123
	City or College Town	City	College Town	7	55	0.096
<b>Sum:</b>					<b>570</b>	<b>1.000</b>

Step 6: Calculate Total Scores

<b>Measures</b>	<b>Weight (Points/Sum)</b>	<b>Carolina</b>	<b>Georgia</b>	<b>Michigan State</b>	<b>Florida State</b>
Average SAT Score/GPA	0.140	0.133	0.116	0.032	0.091
US News & World Report Ranking	0.070	0.070	0.035	0.035	0.035
Tuition	0.175	0.117	0.058	0.058	0.175
Room & Board	0.158	0.052	0.106	0.052	0.158
Athletics	0.132	0.132	0.132	0.132	0.132
Size (Undergrad)	0.105	0.105	0.070	0.035	0.035
Near Home	0.123	0.123	0.041	0.041	0.041
City or College Town	0.096	0.096	0.096	0.096	0.048
<b>Sum:</b>	<b>1.000</b>	<b>0.828</b>	<b>0.653</b>	<b>0.480</b>	<b>0.714</b>

Step 7: Interpret Results

Based on my results,.....