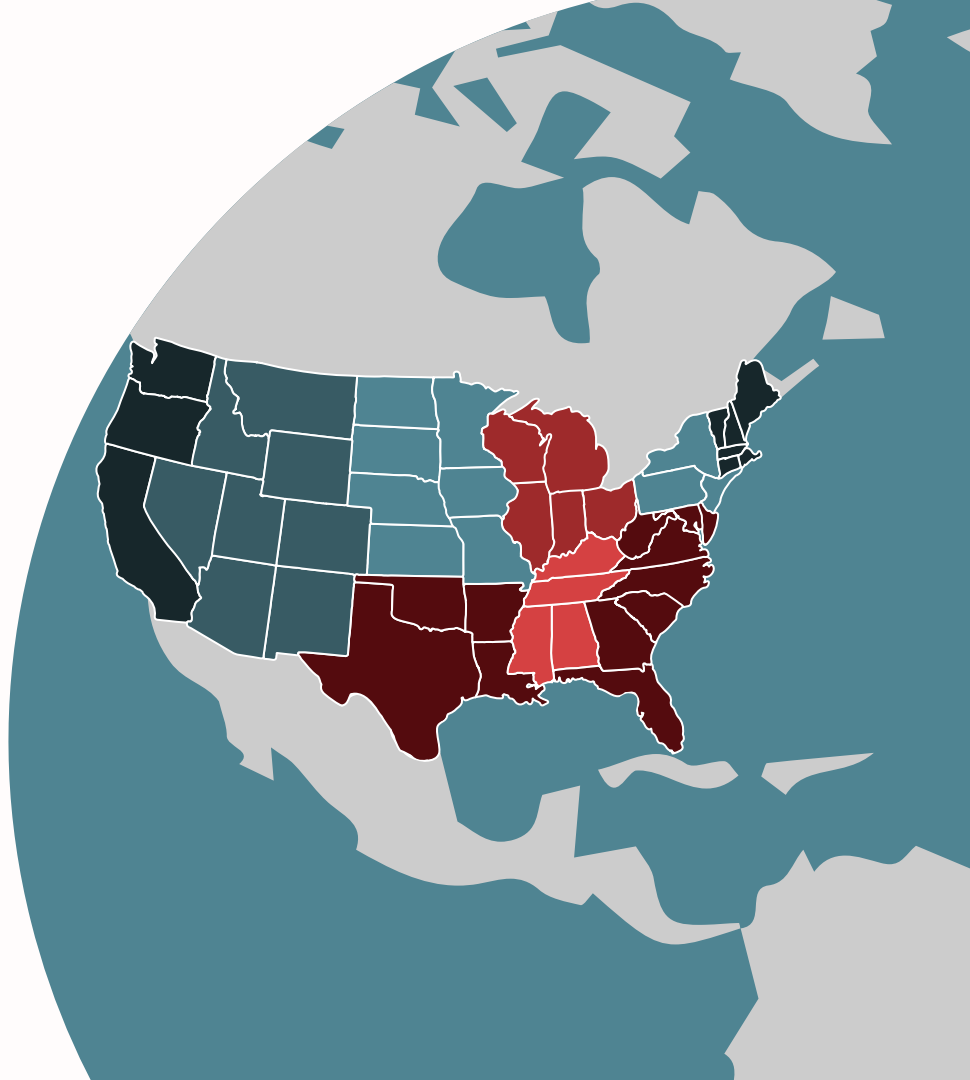


Better State, Better SAT Score?

By Kantaphon Vareekasem (Tata)



01 **PROBLEM VS. SOLUTION**

There are numerous barriers for students to pursuing higher education.

Finance challenges and college readiness are major obstacles for students.



Problem



**Rising
Tuition Costs**



**Increased
Competition**



**Rising
Cost of Living**

Question



SAT with Essay

March 9, 2019

11th Grade

1600

Total Score

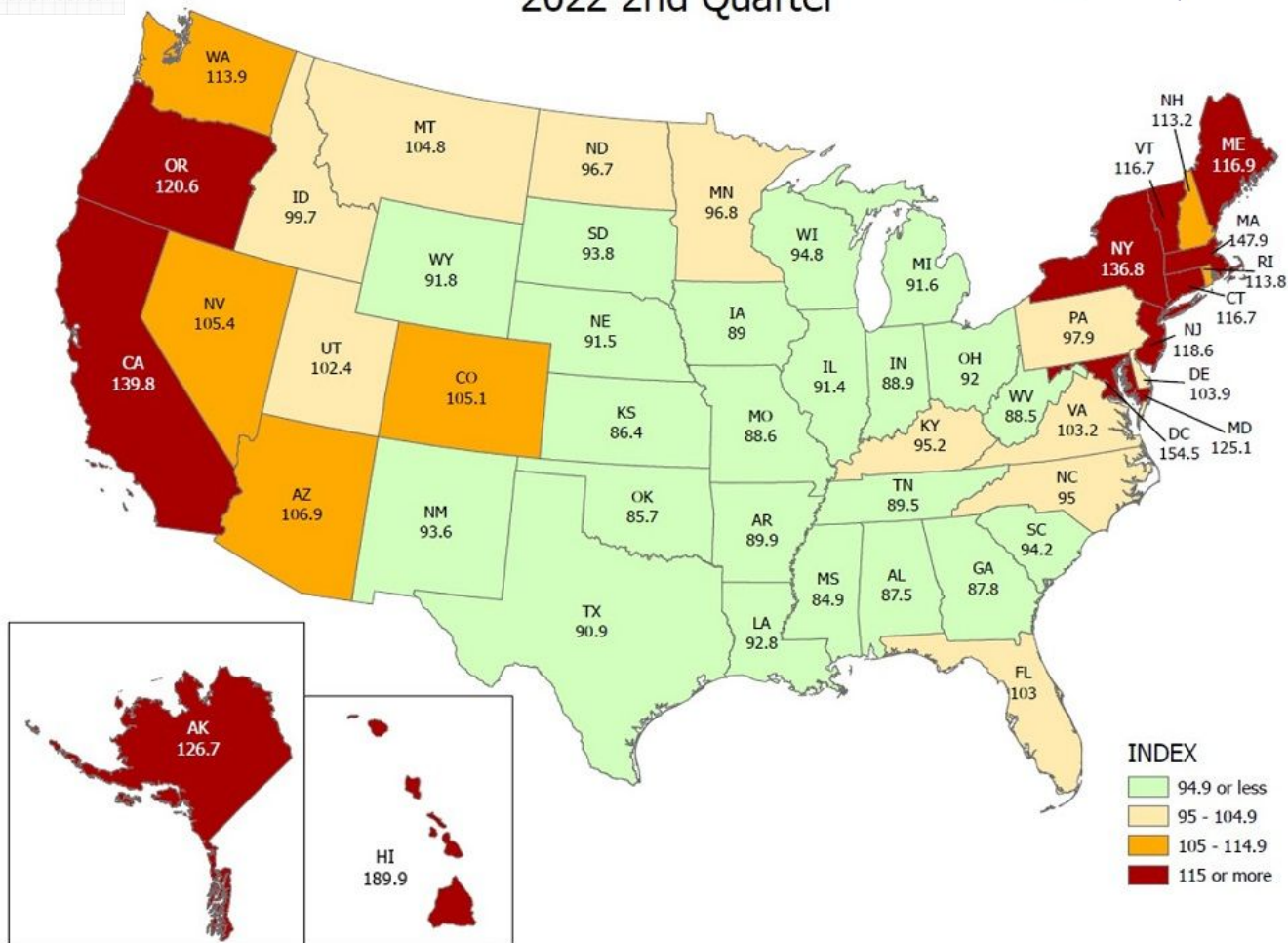
800

Evidence-Based
Reading and Writing

800

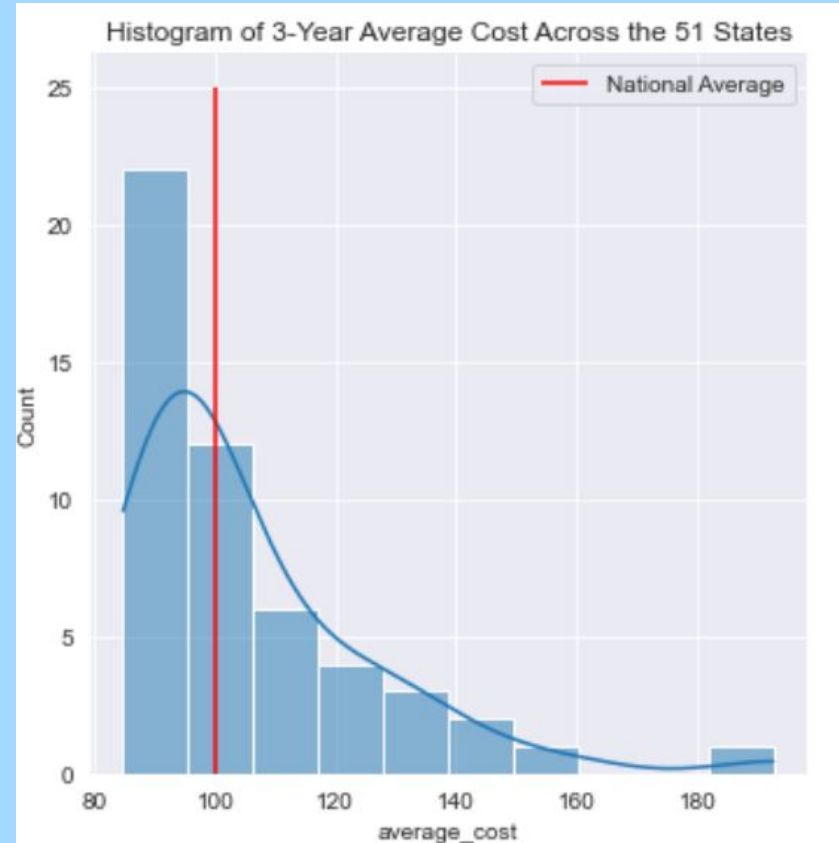
Math

Composite Cost of Living Index 2022 2nd Quarter

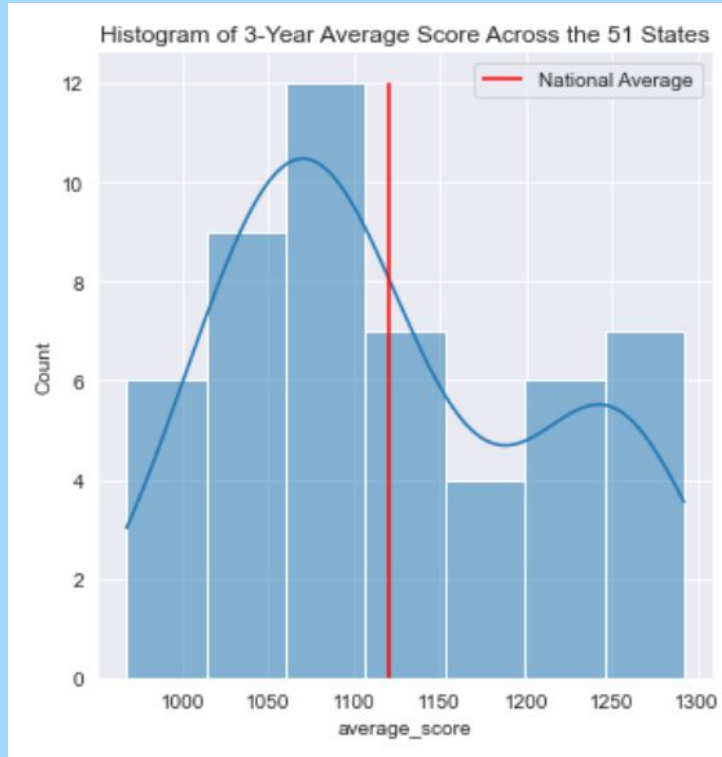


3-Year Average Cost of Living Index

The cost of living of states is **heavily skewed**.



SAT

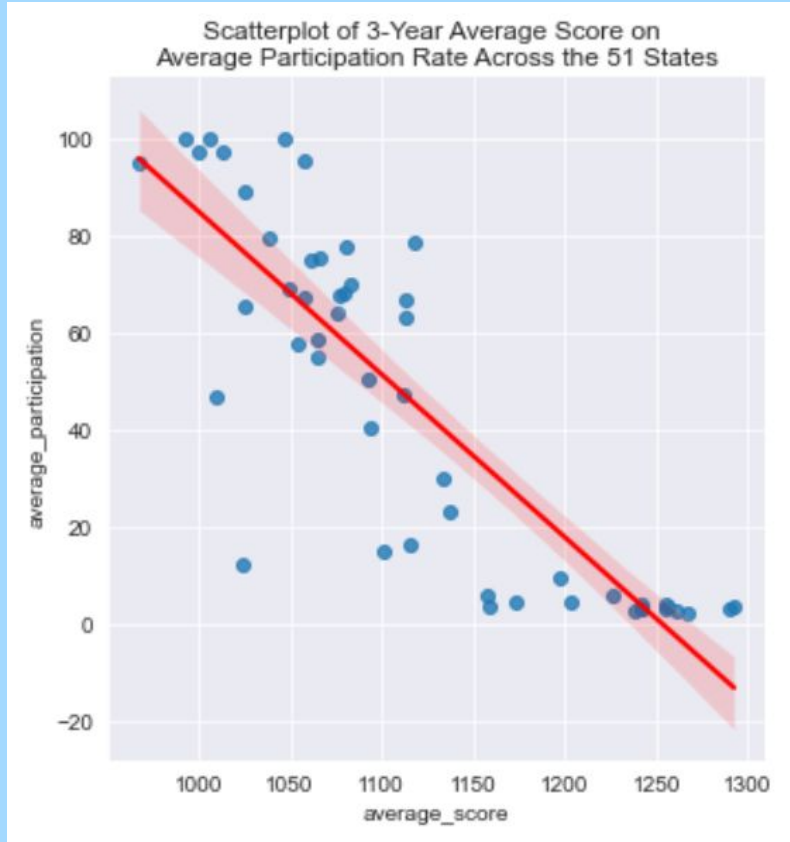


The SAT has two sections of the test:

1. Evidence-Based Reading and Writing
2. Math

The **minimum score** for each section is **200** and **maximum score** is **800**. The range of total score is between **400** and **1600**.

Average Score & Participation Rate



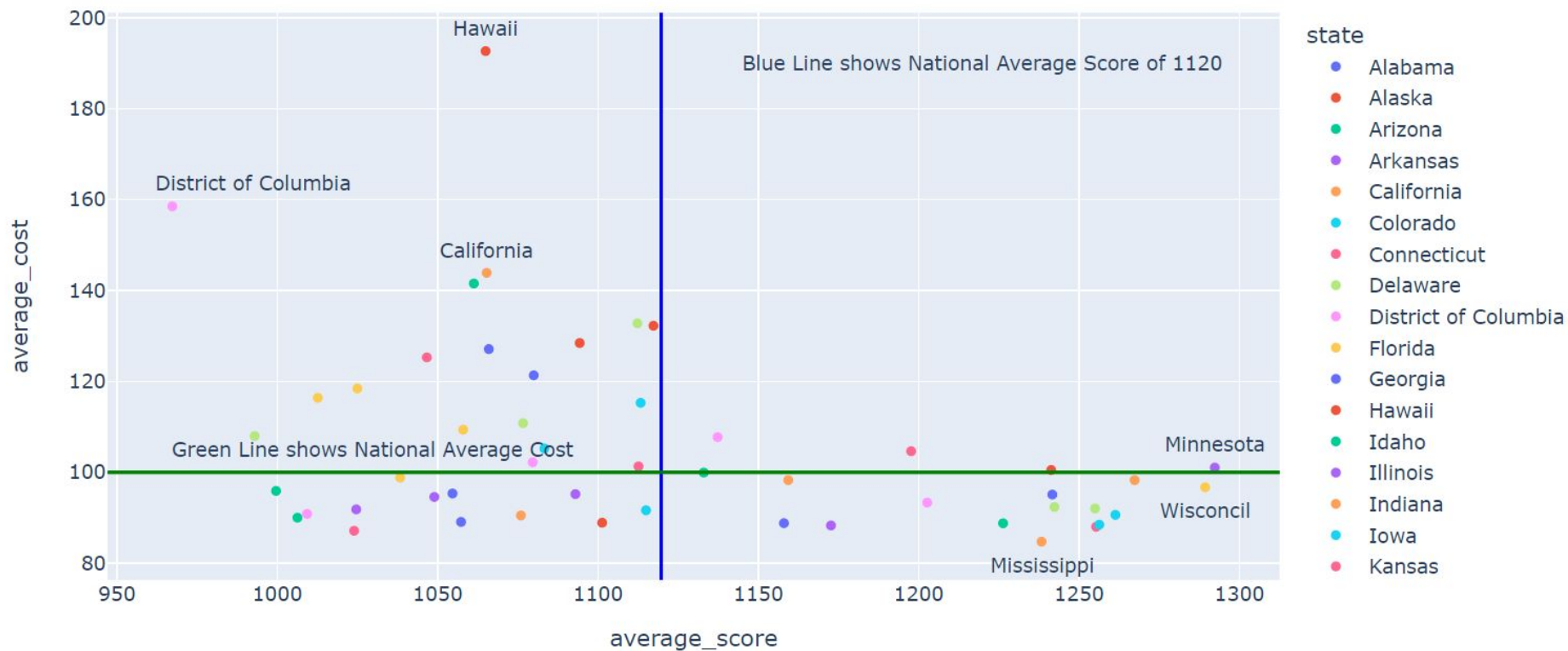
- Negative Correlation

Justification

- Policies
- Low Participant -> Optional -> Better Prepared Students

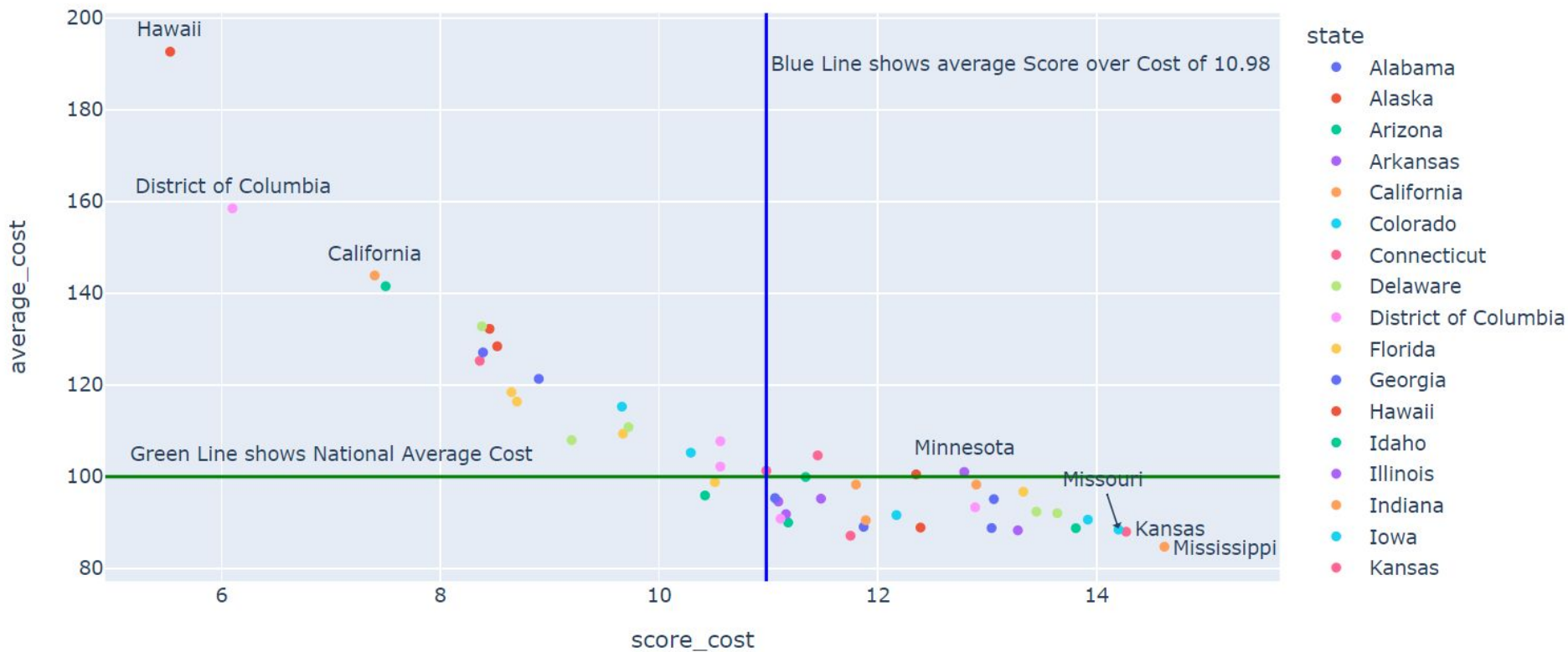
Interactive Scatter Plot of 3-Year Average Score and Cost of Living

Negative Correlation (-0.37)



Interactive Scatter Plot of Average Score over Cost of Living

Negative Correlation (-0.88)



Top 5 Most Valuable States

state	score_cost	score_house_cost	average_score	average_cost	average_house_cost
Mississippi	14.62	18.24	1238.33	84.73	67.90
Kansas	14.27	17.20	1255.33	88.00	72.97
Missouri	14.20	17.02	1256.33	88.47	73.83
Iowa	13.92	16.16	1261.33	90.63	78.03
Tennessee	13.81	15.86	1226.33	88.77	77.33



Worst 5 Most Valuable States

state	score_cost	score_house_cost	average_score	average_cost	average_house_cost
Hawaii	5.53	3.32	1065.00	192.67	320.83
District of Columbia	6.10	3.64	967.33	158.50	265.97
California	7.40	5.12	1065.33	143.87	208.00
New York	7.50	4.97	1061.33	141.53	213.67
Connecticut	8.36	7.41	1046.67	125.27	141.20



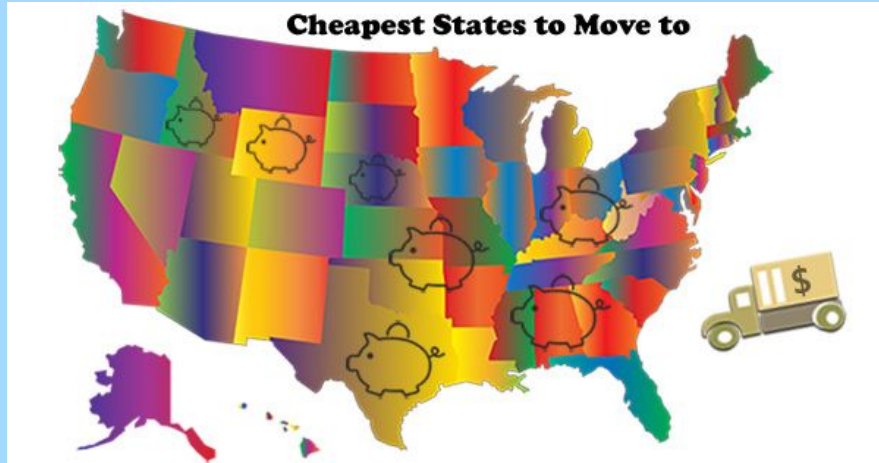
Conclusion



Expensive State \neq Better Score

↓ Participation ↑ Score

Recommendation



Relocate to Cheaper State



Different Education Policies

Q & A

If you want something in your life you've never had,
you'll have to do something you've never done. ~ J.D. Houston



Thank
You

The image features the words "Thank You" written in a dark blue, elegant cursive script. The text is centered on a white rectangular background. Surrounding the text is a decorative circular arrangement of golden-yellow teardrop shapes and small four-pointed stars. The entire graphic is set against a light blue background.