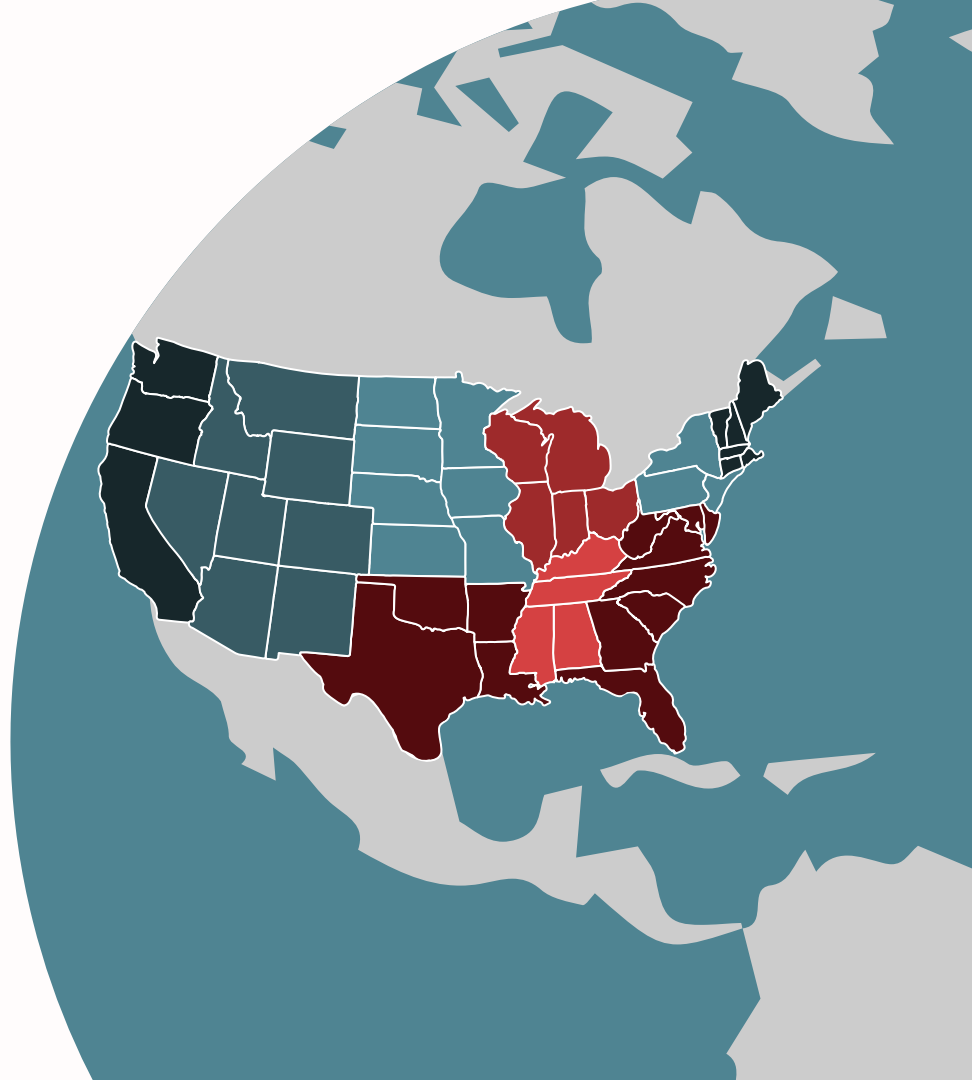


Better State, Better SAT Score?

By Kantaphon Vareekasem (Tata)





SAT with Essay

March 9, 2019

11th Grade

1600

Total Score

800

Evidence-Based
Reading and Writing

800

Math

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**

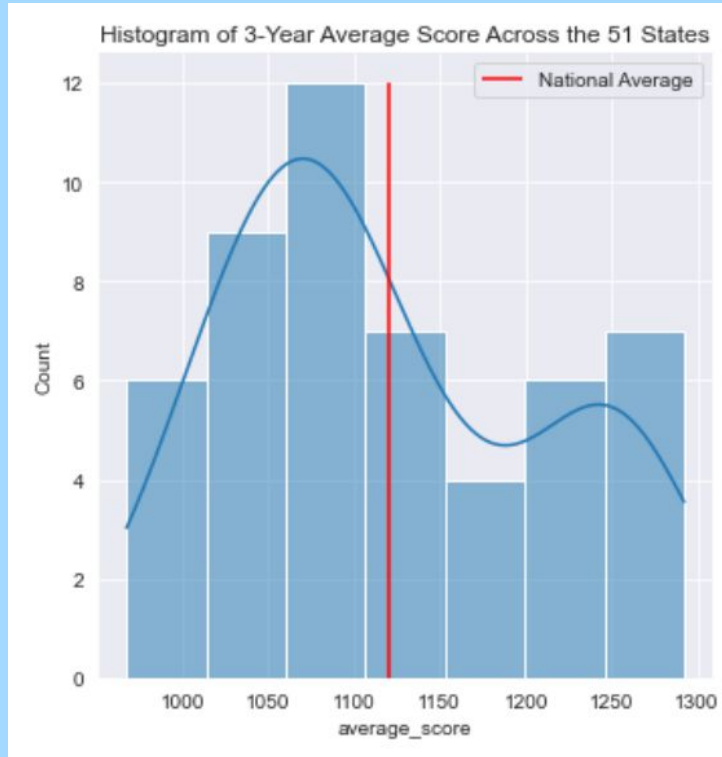


**Increased
Competition**



**Rising
Cost of Living**

SAT



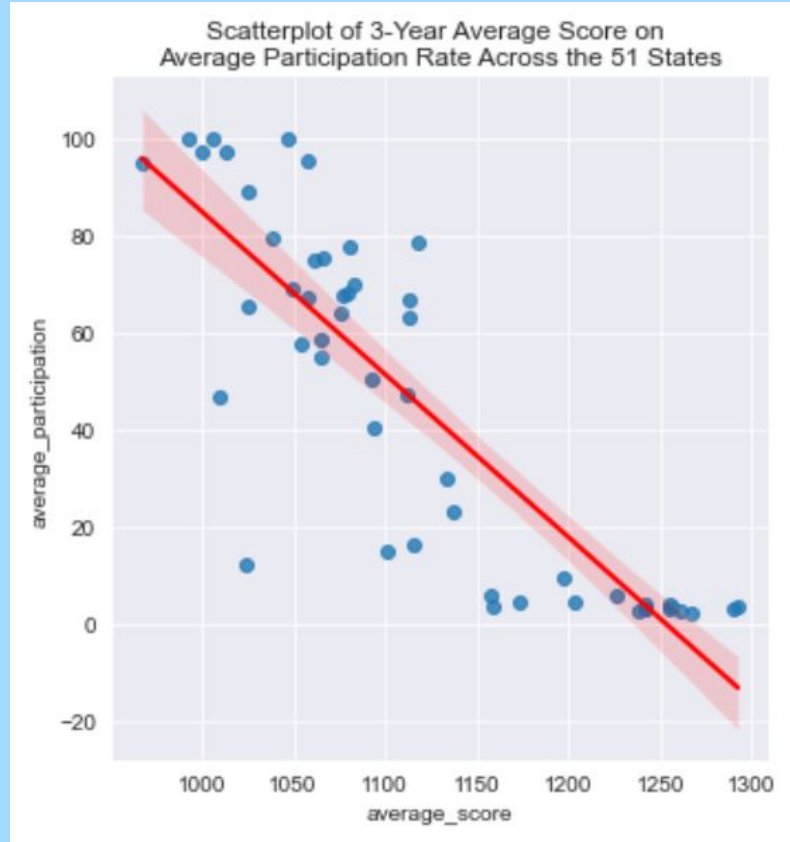
The SAT has two sections of the test:

1. Evidence-Based Reading and Writing
2. Math

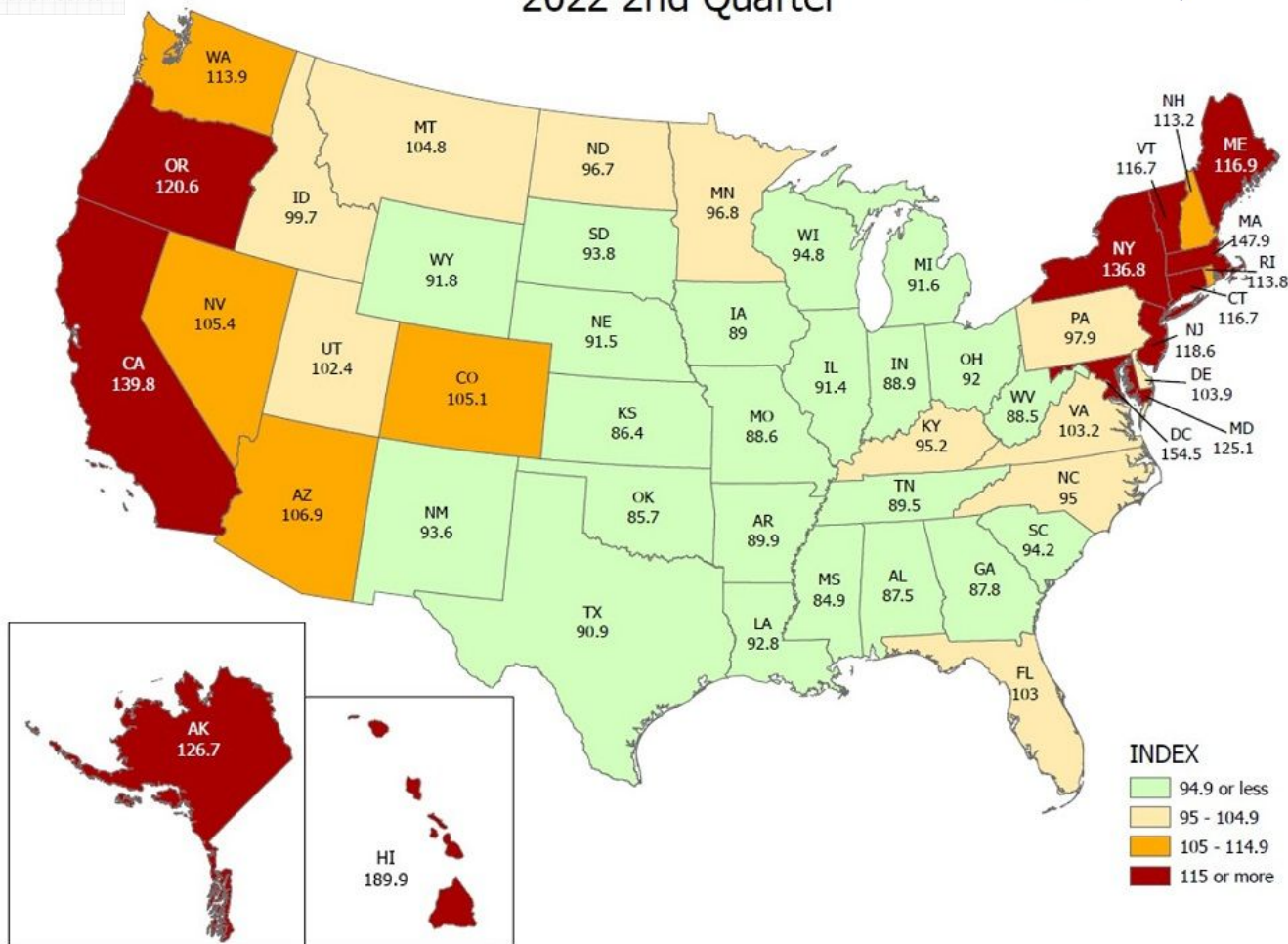
The minimum score for each section is 200 and maximum score is 800.

The range of total score is 400 to 1600.

Average Score & Participation Rate

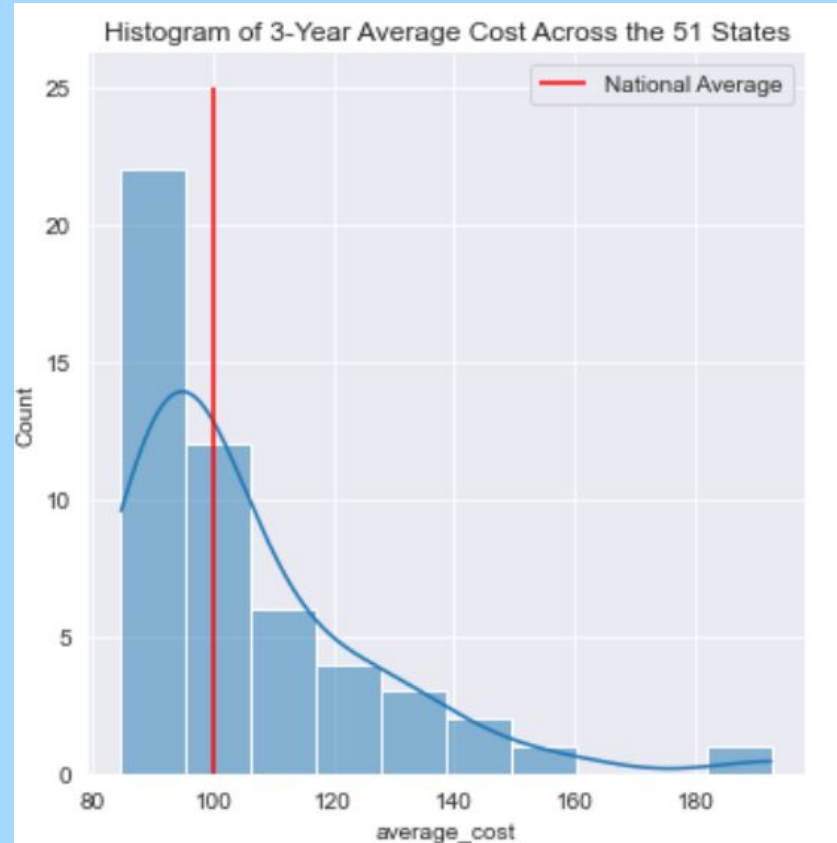


Composite Cost of Living Index 2022 2nd Quarter

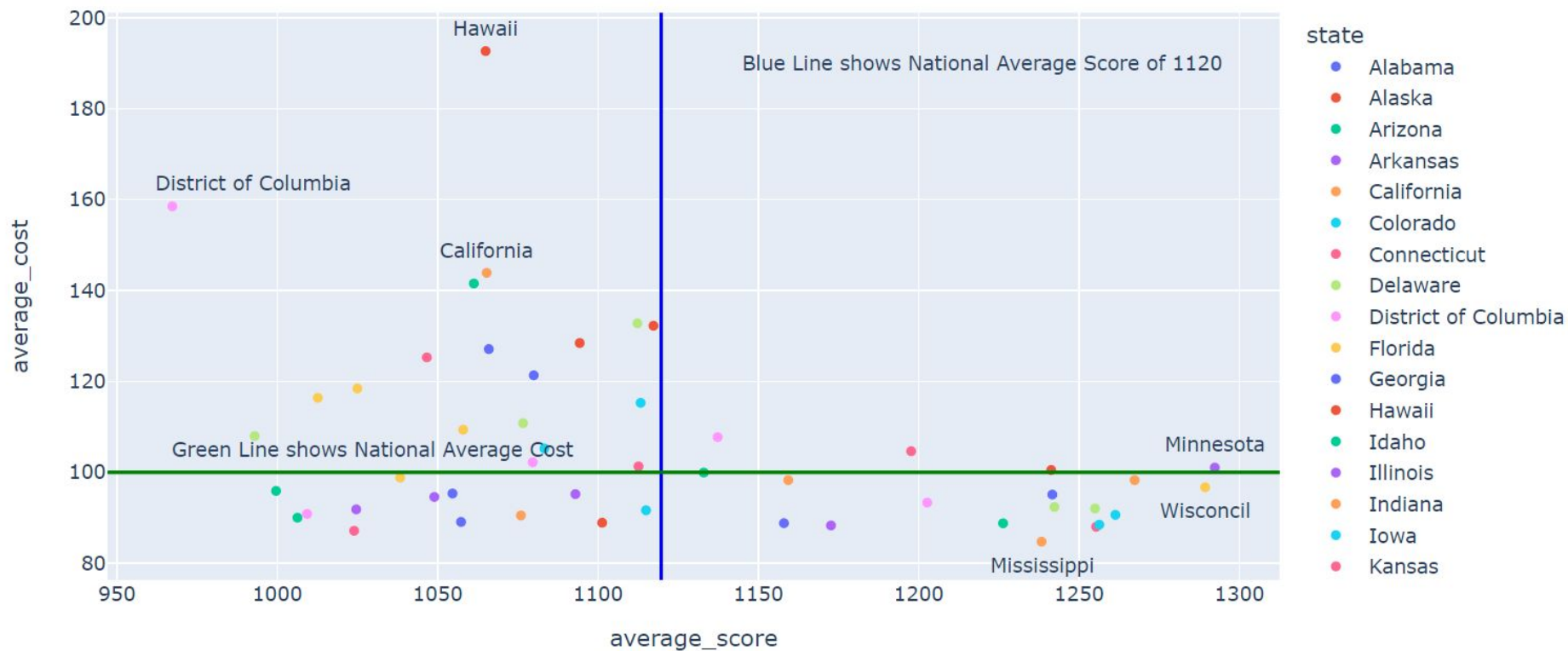


3-Year Average Cost of Living Index

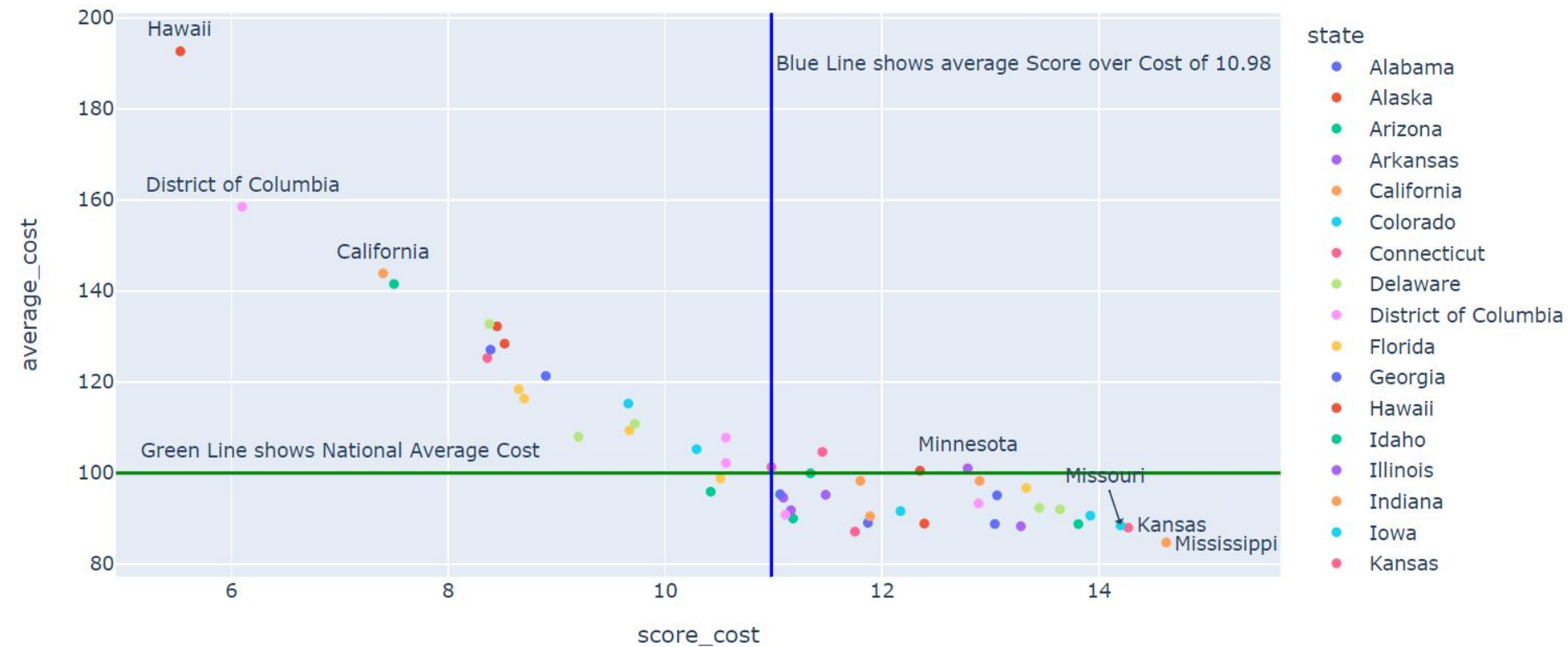
The cost of living of states is **heavily skewed**.



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



Interactive Scatter Plot of Average Score over Cost of Living



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 |

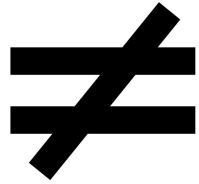


Worst 5 Most Valuable States

| 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



Your Total Score

1600 | 400 to 1600

99th

Nationally Representative
Sample Percentile

99th

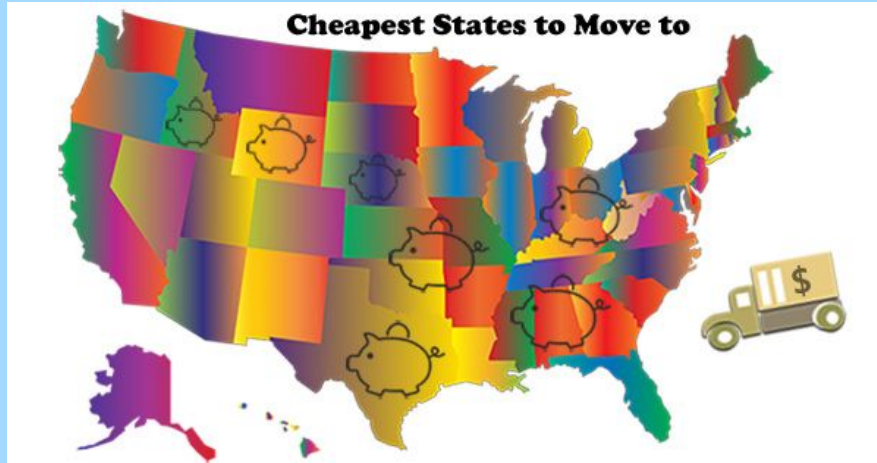
SAT User Percentile —
National



Expensive State ≠ 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



