

How do you measure compactness?

1. Complete the Squaretopia handout
2. Look up the definition of the Reock measure of compactness
 - (a) What is the most compact shape using the Reock measure?
 - (b) Sketch a shape that would have a high Reock measure, and one that would have a low Reock measure
3. Repeat #2 for the Convex hull measure of compactness
4. Repeat #2 for the Polsby-Popper measure of compactness
5. For each of your district plans in Squaretopia,
 - (a) Compute the Polsby-Popper measure of each district
 - (b) Compute the average Polsby-Popper measure for the plan

Do your averages match with your intuition from looking at the plans?