

6 votes per voter

$$390 > 501 \times \frac{6}{8} = 375.75$$

$$390 < 501 \times \frac{6}{7} = 429.43$$

$$501 \times \frac{6}{7} = 429.43 > 390$$

$$501 \times \frac{6}{8} = 375.75 < 390$$

$$x > (891 - x) \times \frac{6}{9} \Rightarrow x > 356.4$$

$$x > (891 - x) \times \frac{6}{8} \Rightarrow x > 381.86$$

$$x > (891 - x) \times \frac{6}{7} \Rightarrow x > 411.23$$

$$x > (891 - x) \Rightarrow x > 445.5$$

$$x > (891 - x) \Rightarrow x > 445.5$$

$$x > (891 - x) \Rightarrow x > 445.5$$

$$x \times \frac{6}{7} > (891 - x) \Rightarrow x > 479.77$$

$$x \times \frac{6}{8} > (891 - x) \Rightarrow x > 509.14$$

$$x \times \frac{6}{9} > (891 - x) \Rightarrow x > 534.6$$

891 voters, 9 candidates elected

Procedure	1 elected	majority(5)	all(9)
9 districts			
you draw	50/891	250/891	450/891
they draw	442/891	642/891	842/891
at-large voting			
1 vote	90/891	447/891	803/891
6 votes	357/891	446/891(wins 6)	535/891
9 votes	446/891(wins 9)	446/891(wins 9)	446/891

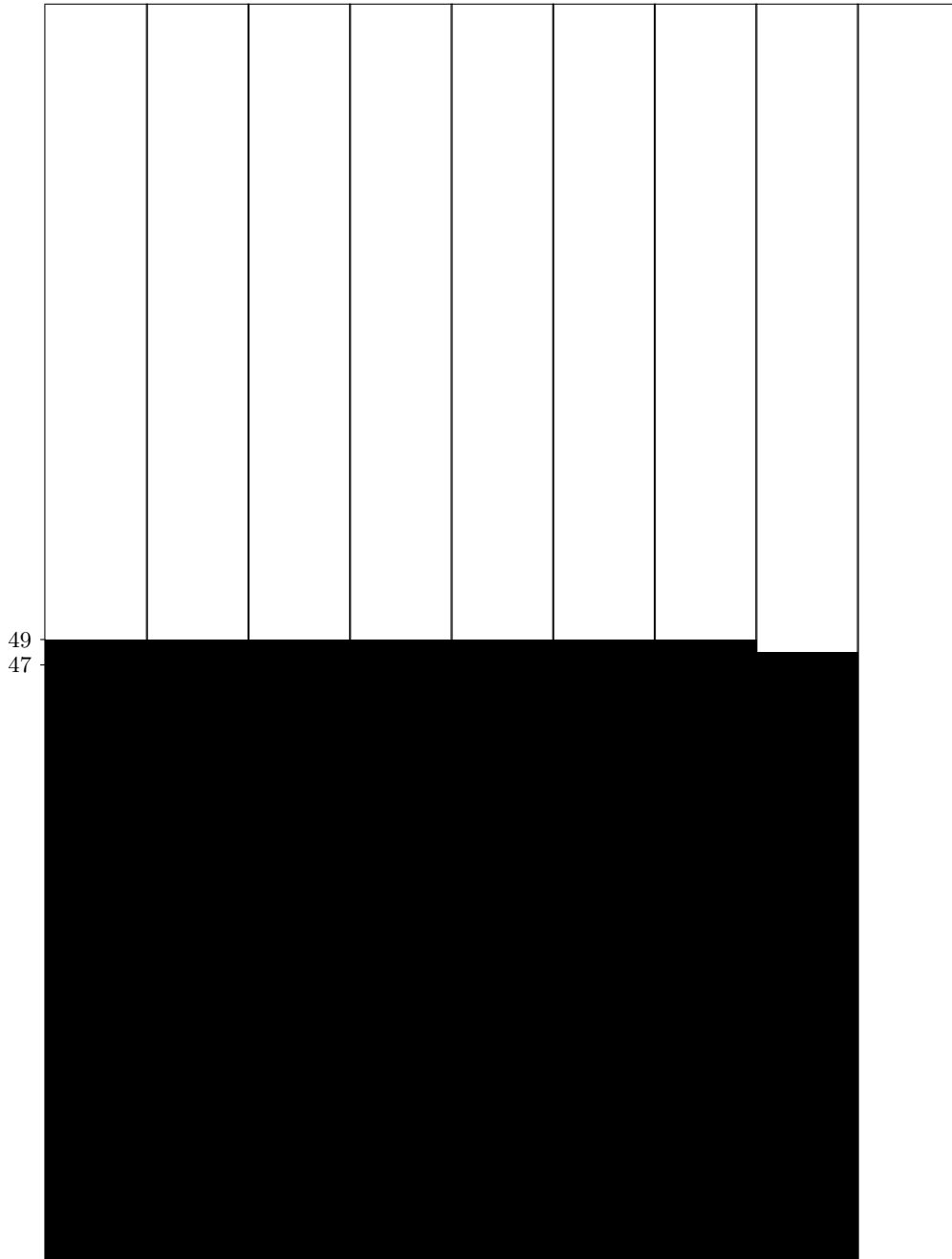


Figure 1: 891 voters, 390 favor your candidate, opposition draws districts

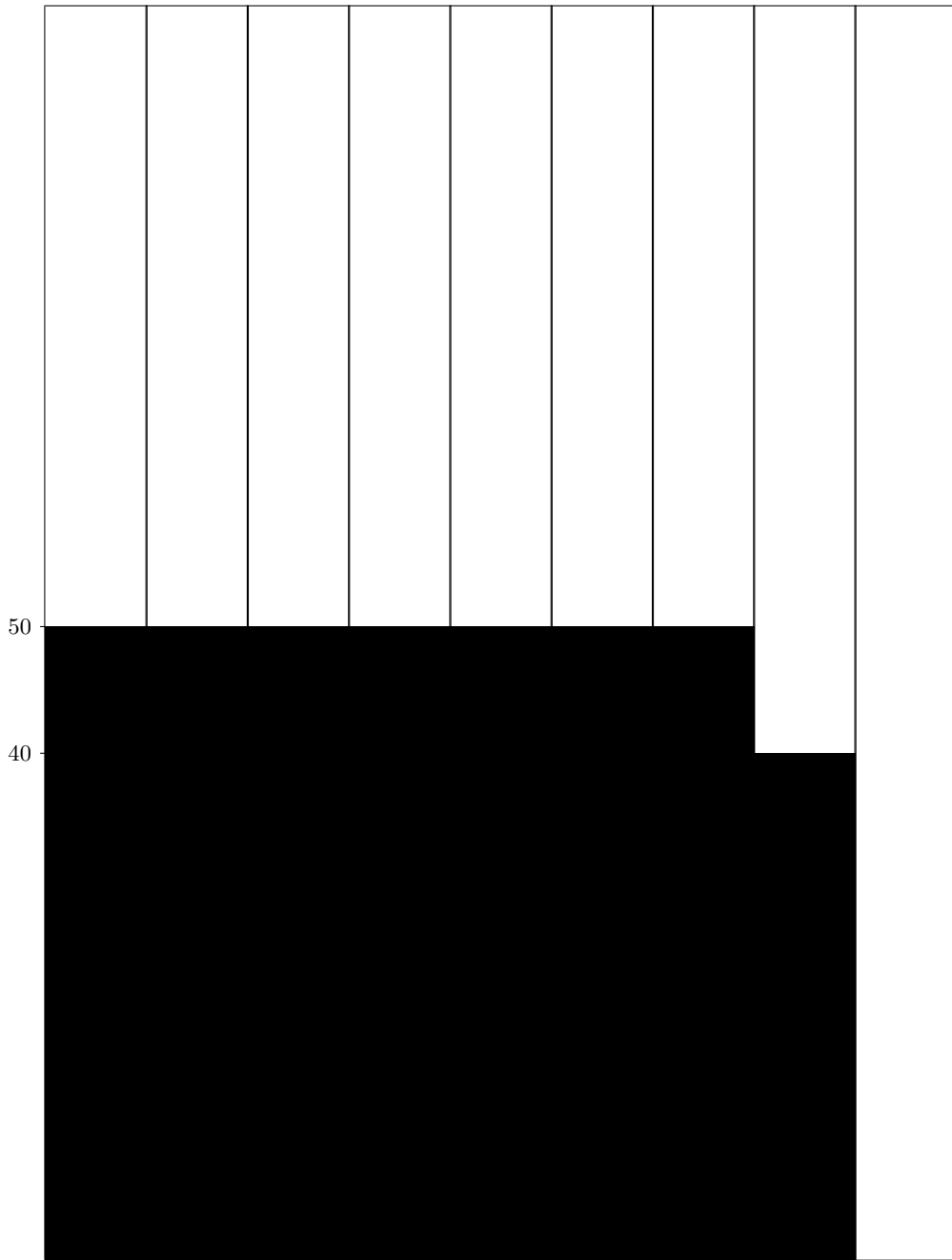


Figure 2: 891 voters, 390 favor your candidate, you draw districts

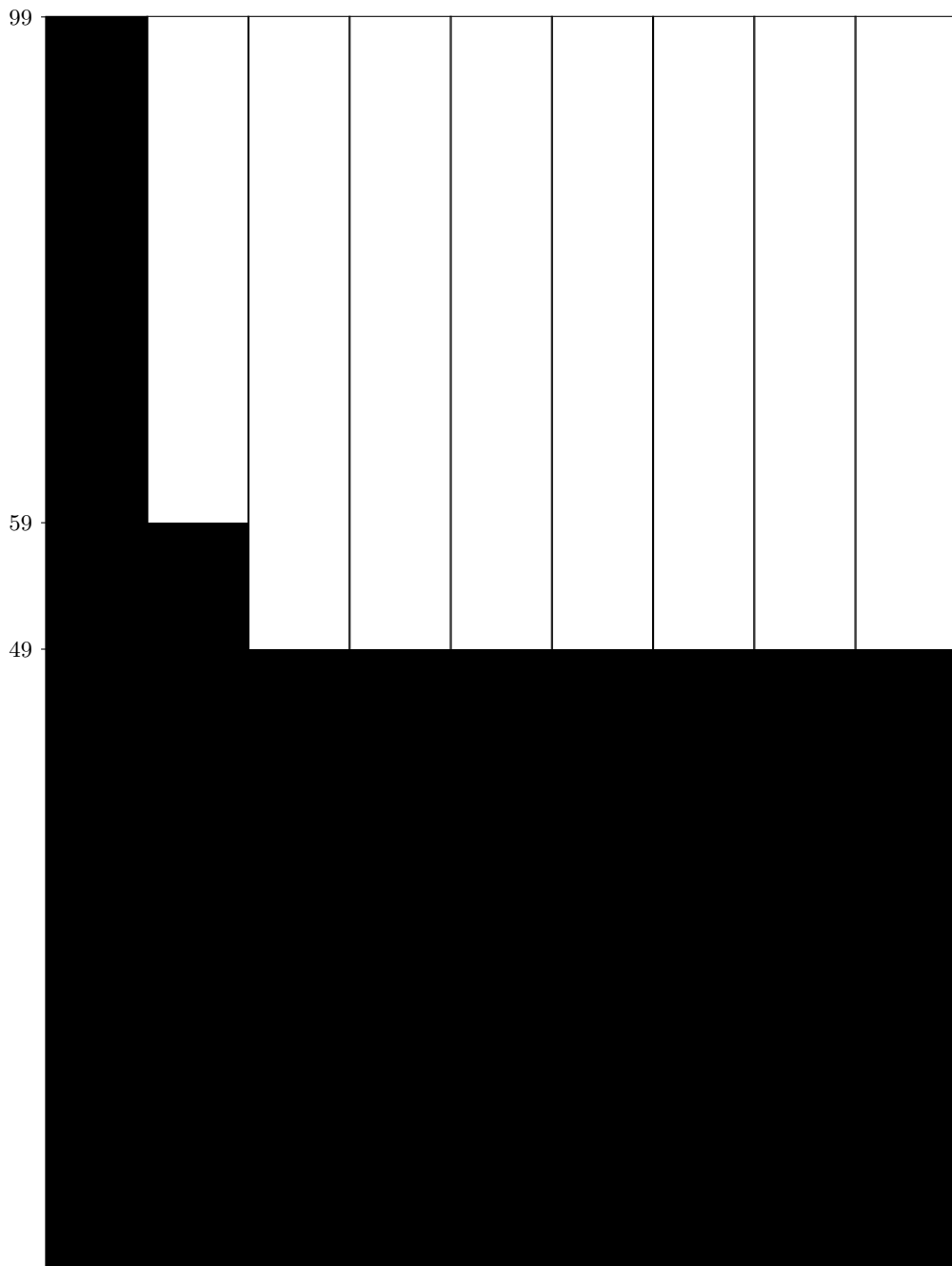


Figure 3: 891 voters, 501 favor your candidate, opposition draws districts

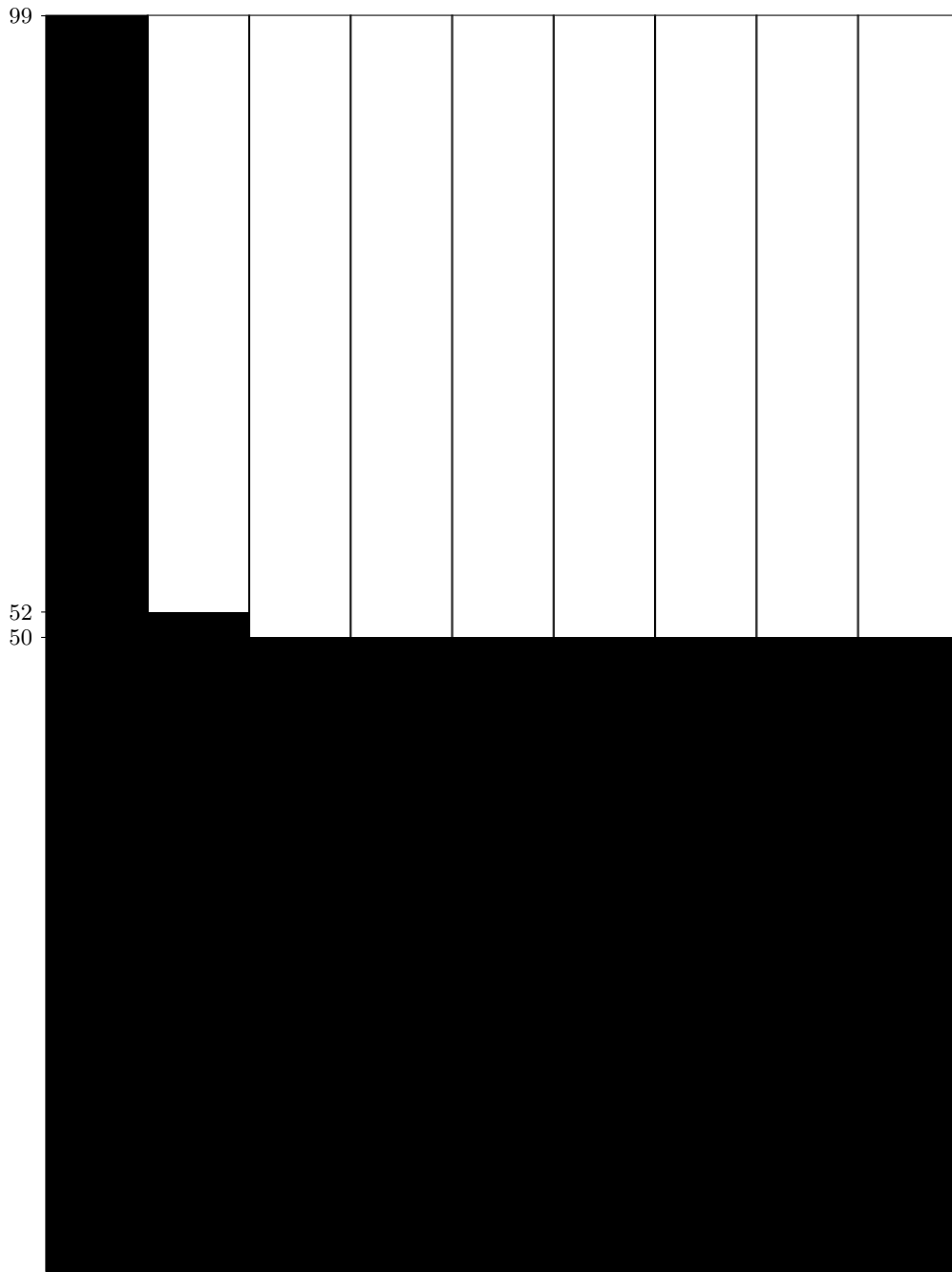


Figure 4: 891 voters, 501 favor your candidate, you draw districts