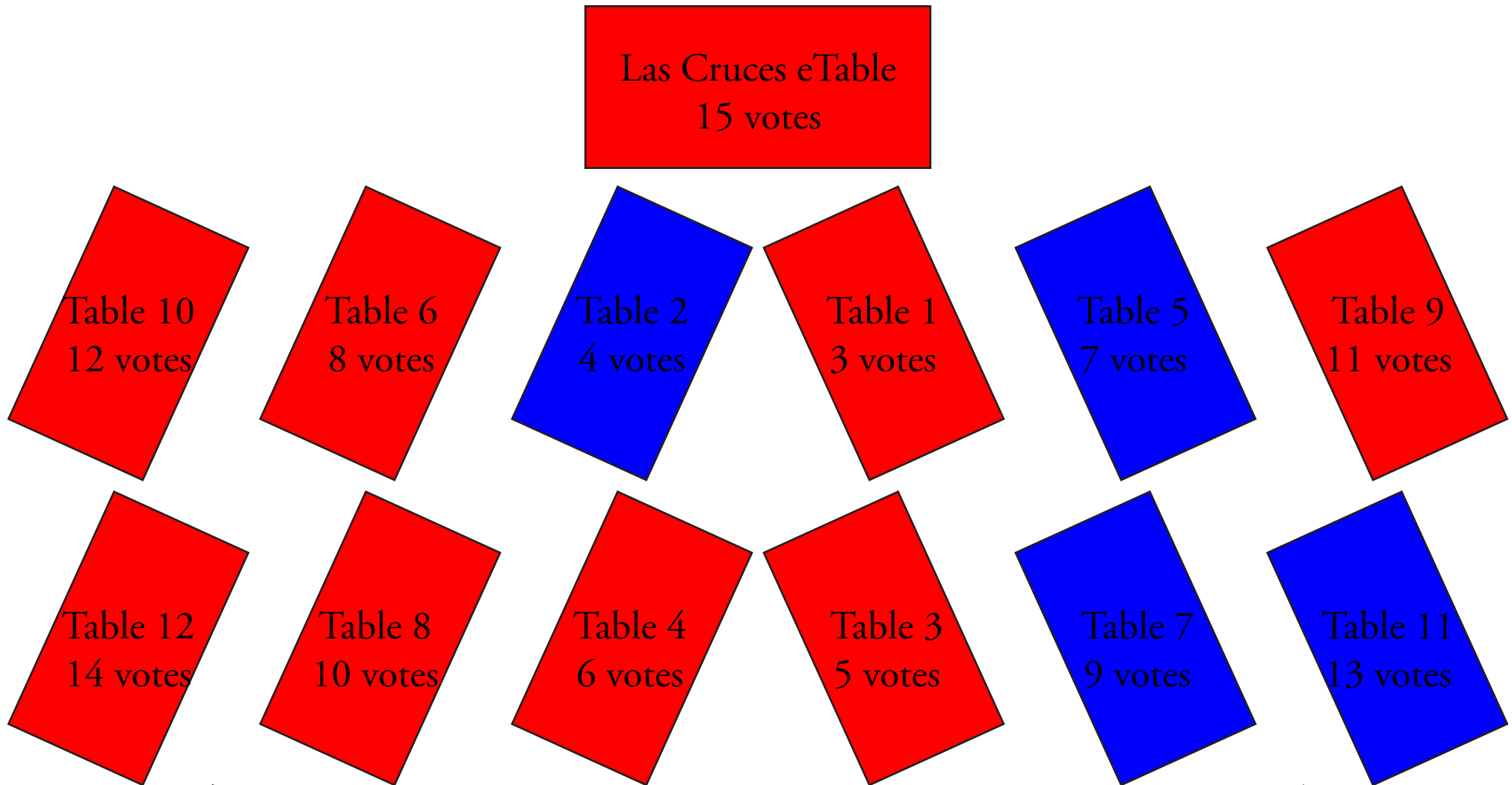


Red=84 Blue=33



THE UNITED STATES OF PCMI

Day 12 (July 17, 2013)

Closing Game Instructions:

Each person will find one coin. Flip it three times (for real!) and write down

1st coin	H or T?
2nd coin	H or T?
3rd coin	H or T?

80 people in PC and NM just flipped 3 coins.

44 people got at least 2 heads.

13 people got 3 heads.

So the conditional probability (experimental) of getting 3 heads given that you had 2 heads was $13/44$. How does this compare to the theoretical probability? (See Problem 4a.)

80 people in PC and NM just flipped 3 coins.

	# people	expected #	difference
0 heads	8	10	-2
1 head	28	30	-2
2 heads	31	30	1
3 heads	13	10	3

What are some ways that we can measure how "far" away the actual distribution is from the expected distribution?