Project: The Mathiness of Truthiness   **Lesson:** Launching the Project
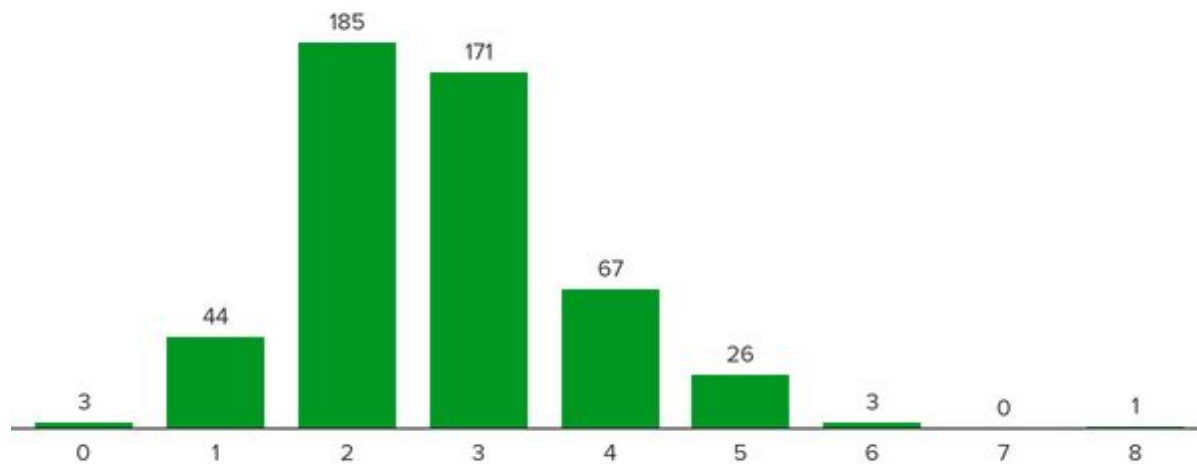
Essential Question: How can a mathematical lens help us to deeper unpack the assumptions we make about the world and seek after truth?

Teacher Model of the Graph Analysis Activity

How many women are on a typical S&P 500 board?

Not many. Most big public companies have just three or fewer female directors

185
171
67
44
26
3
3
0
1

0   1   2   3   4   5   6   7   8

Source: Institutional Shareholder Services

Graph Source: Union Tribune   **News source political leaning:** ?
Graph type: Histogram
Graph Shape: Skewed right with one apparent outlier (8)
Description of the graph: The graph has a large cluster of data between 2 and 3 and a gap at 7. This means that most companies have 2 or 3 board members. No Companies have 7 board members and very few have 0, 6, and 8.

Amount of Data points: 500
Mean: 2.7
Median: 3
Mode: 2
Range: 8
What data is this graph missing that would help tell the story more thoroughly: This graph doesn't talk about the number of people on boards in general so it's hard to have an understanding of these numbers.

Biased Headline 1:

Women have a frequent presence on company boards

Biased Headline 2:

Most companies have 3 or fewer female directors