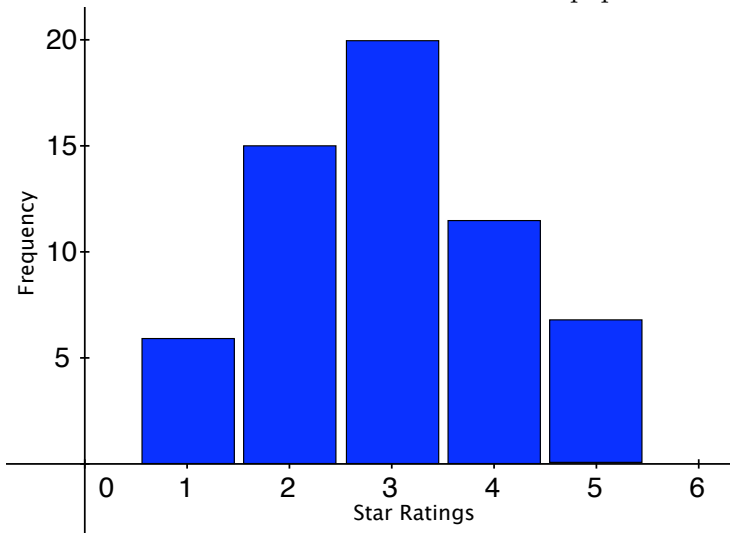


## Math 107 Quiz #5 Answers

- The results should not be believed because the question automatically biases people to chose the Toyota Camry. Some people will chose differently, but the idea of considering the Camry is already planted in their minds, so the results will most likely favor the Camry. Instead, there should be a more general question like "What do you think is the most popular car in America?" or perhaps there could be a list of cars for people to choose from.
- (a) The frequency table should look like:

Ratings	Frequency	Rel. Freq.
Five-Star	7	$7/60 \approx 11.7\%$
Four-Star	12	$12/60 = 20\%$
Three-Star	20	$20/60 \approx 33.3\%$
Two-Star	15	$15/60 = 25\%$
One-Star	6	$6/60 = 10\%$
	60	100%

- (b) Number of Restaurants in the Newspaper with a Particular Rating



- (a) There were more babies named Stephen. (The band is wider for the name Stephen in the graph in 1910.)

- (b) There were approximately 3,000 babies named Stephen. There were approximately 6,000 babies named Stephanie. (Both of these numbers are out of every 1 million babies.)

4. Mean =  $\frac{2+3+3.8+3.9+8.1+3}{6} = \frac{23.8}{6} = \boxed{3.9\bar{6}}$

Median = (average of 3 and 3.8) = 3.4

Mode = 3