This example is used to illustrate the difference between the two different types of average: the _mean_ and the _median_. Let's imagine that the salaries in the dinner before Bill Gates walked in were:

Diner	Salary
Anna	$85,000
Bob	$50,000
Cathy	$45,000
Dave	$40,000
Eric	$30,000
Fran	$30,000
Gail	$35,000

1. Find the mean and median salary _before_ Bill Gates walked into the diner.

2. Are the two measurements pretty similar? Would they represent a "typical" diner's salary? Which would you choose to represent a "typical" diner's salary? Are the two measurements close enough that it really doesn't matter too much?

Now, Bill Gates walks in with annual income of, say, $1 billion.

3. Find the mean and median salary _after_ Bill Gates walked into the diner.

4. Are the two measurements pretty similar? Which measurement would you choose (the mean or the median) to represent a "typical" diner's salary? Explain your answer briefly.