

## Mgmt 230: Introductory Statistics

### Quiz: Describing Data

1. *Time* Magazine once noted that the average Yale graduate from the class of 1924 has an annual income of \$25,111 (probably equivalent to a six figure salary in today's dollars). Assuming this came from a large sample and honest researchers, explain how this is likely subject to a sample selection bias. Is the average income of this population likely larger or smaller?
2. In Chapter 2 of Huff's *How to Lie With Statistics*, he makes up an example where someone claims the average income in a particular neighborhood is \$15,000, and later the same person claims the average income in that same neighborhood is \$3,500. This person is using accurate statistics to tell lies. How is he doing this?
3. More than 70% of college professors make the impressive claim they have above average student evaluations. How can this be true? What measure of center are they talking about when they say "average" and what must be true about the distribution of student evaluations scores?