

# Interpreting Spread

Consider the following dataset, representing the annual income of ten people.

All numbers represent *thousands of dollars* (so 14 means "\$14,000"):

60, 10, 21, 180, 14, 20, 45, 35, 45, 170

1) In the space below, rewrite this dataset in **sorted order**.

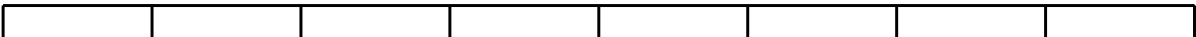
2) In the table below, compute the **measures of center** for this dataset.

Mean (Average)	Median	Mode(s)

3) In the table below, compute the **five number summary** of this dataset.

Minimum	Q1	Q2 (Median)	Q3	Maximum

4) On the number line below, draw a **box plot** for this dataset.



5) The following statements are *correct* ... but misleading. Write down the reason why.

Statement	Why it's misleading
"They're rich! The average person makes more than \$70k dollars!"	
"It's a middle-income list: the most common salary is \$45k/yr!"	
"This group is really diverse, with people making as little as \$14,000 and as much as \$280,000!"	