Lesson 10: Measures of Center

- Let's explore the relationship between measures of center and the shape of data.

10.1: Estimation: Lamp Post

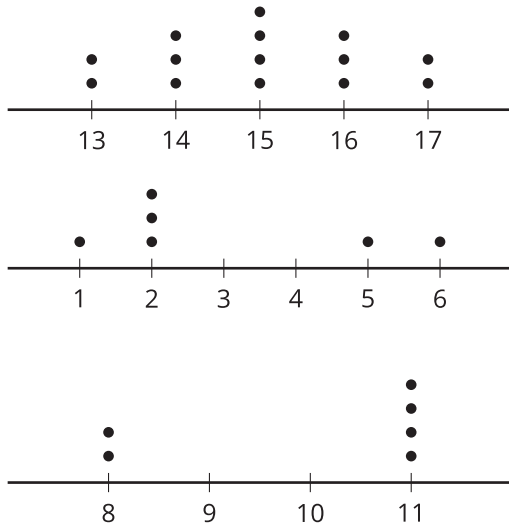How tall is the lamp post?

1. Record an estimate that is:

too low	about right	too high

2. Explain your reasoning.

10.2: Balance Point

For each graph, estimate the balance point. The balance point is where you think the number line would balance. Record your balance point on the graph with a Δ symbol. Then, calculate the mean and median for each data set.
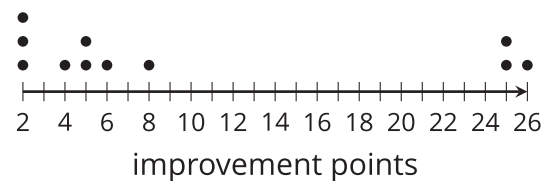

10.3: Mean vs. Median

When people join a gym, they are assessed on their fitness by doing several exercises. The results are given as a score between 1 and 100 with 100 representing peak fitness for the person's age. The gym claims they can improve scores for members after only 2 months.

After 2 months, 11 people are assessed again, and the number of points they improve on in the assessment is shown in the dot plot.

improvement points

1. What is the mean improvement among these members?

2. What is the median?

3. Which measure of center is a better representation of the members' improvement? Explain your reasoning.