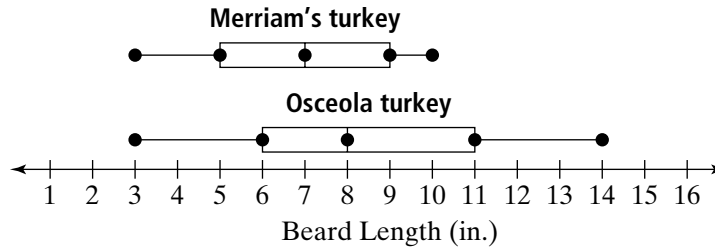


# Practice 8-4

## Data Variability

1. A biologist collects data about beard length on wild turkeys. Compare the IQRs of the data sets, and use the comparison to make an inference.



IQR for Merriam's wild turkey:  IQR for Osceola wild turkey:

What can you infer? Explain your reasoning.

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The line plot at the right shows the number of homeruns hit by players in a homerun derby.

Homeruns		
Teens		Adults
X X	1	X
X X	2	
X	3	X X
X	4	X X X
X X	5	
	6	
X	7	X X
	8	X
	9	X
X	10	

2. Calculate the mean of each data set.

Teens:

Adults:

3. Determine the MAD for each data set.

Teens:

Adults:

4. What number  $n$  multiplied by the MAD equals the difference between the means?

MAD:

5. What does this number tell you about the overlap of the data sets?