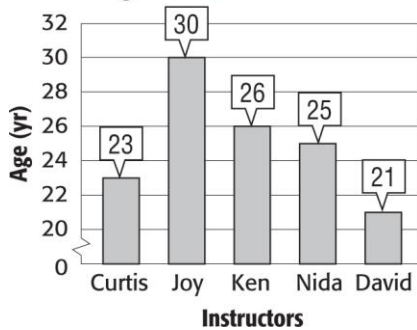


Answer Key

Measures of Center Homework Practice

Find the mean, median and mode for each set of data.

1. Ages of Dance Instructors



Mean: 25
Median: 25
Mode: none

2.

Falls	Height (ft)
Bridal Veil	153
Horsetail	176
Latourell	249
Metlako	150
Multnomah	620
Wahkeena	242

Mean: 265
Median: 209
Mode: none

3. Snow in inches: 40, 28, 24, 37, 43, 26, 30, 36

Mean: 33
Median: 33
Mode: none

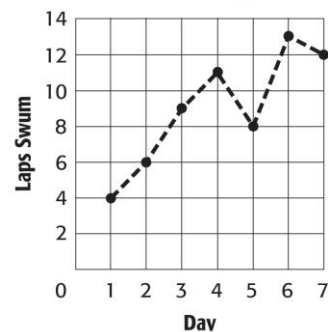
24, 26, 28, 30, 36, 37, 40, 43

4. Basketball Points

Basketball Points					
41	42	44	44	52	54
61	63	64	67	67	67
67	68	68	72	72	73
80	81	82	84	85	86

mean: 66, median: 67,
modes: 67

5. Kai-Yo's Swimming Schedule



mean: 9, median: 9,
mode: none

6. **WEATHER** Refer to the table at the right. Write a statement that compares the median low temperatures for the two cities.

Daily Low Temperatures (°F)	
Charleston	Atlanta
33 34 33 35	48 41 43 40
36 35 34	45 35 37

The median temperature for Charleston was 7°F lower than the median low temperature for Atlanta.

7. A Louisville newspaper claims that during seven days, the high temperature in Lexington was typically 6° warmer than the high temperature in Louisville. What measure was used to make this claim?

Daily High Temperatures (°F)	
Louisville	Lexington
75 50 80 72	80 73 75 74
70 84 70	71 76 76

Justify your answer. Mode; The mode of the temperatures in Louisville is 70° and the mode for Lexington's temperatures is 76°. Since $76^\circ - 70^\circ = 6^\circ$, the mode was used to make this claim.

8. **CCSS Construct an Argument** One evening at a local pizzeria, the following number of toppings were ordered on each large pizza.

3, 0, 1, 1, 2, 5, 4, 3, 1, 0, 0, 1, 1, 2, 2, 3, 6, 4, 3, 2, 0, 2, 1, 3

Determine whether each statement is *true* or *false*. Explain your reasoning.

a. The greatest number of people ordered a pizza with 1 topping.

True; the mode of the data set is 1.

b. Half the customers ordered pizzas with 3 or more toppings, and half the customers ordered pizzas with less than 3 toppings.

False; the median of the data is 2.

9. **CCSS Justify Conclusions** In the data set {3, 7, 4, 2, 31, 5, 4}, which measure best describes the set of data: mean, median, or mode? Explain your reasoning.

Sample answer: The median or mode best represents the data. The mean, 8, is greater than all but one of the data values.