

1. A biologist is studying gulls. He measured and recorded these wingspans, in centimetres:  
132, 145, 162, 135, 142, 122, 138, 124, 135, 140, 128, 122, 145, 138, 139, 122, 146, 150, 167, 128, 134, 147, 151, 122  
Determine the range and mean of these wingspans.

2. Determine the median and mode of each set of data.

a) 43, 49, 46, 47, 42, 39, 52, 41, 44

b) 135, 148, 168, 154, 148, 152, 169, 170

3. The median of a set of data is 10. Does 10 have to be one of the values in the set? Use an example to support your answer.
4. Does every set of data have a mode? Use an example to support your answer.
5. Jonathan's scores for seven bowling games are 110, 120, 134, 126, 132, 124, and 122. What score does he need on the eighth game to keep the same mean score?
6. Consider this set of data: 525, 575, 495, 63, 450, 560, 500. Which of the following values would change the mean by the greatest amount if it were added to the set? Explain.
- A. 1500                      B. 499                      C. 1

Calgary Daily High Temperatures in June					
19°C	22°C	18°C	23°C	21°C	
20°C	20°C	18°C	21°C	24°C	
25°C	24°C	27°C	28°C	26°C	
24°C	25°C	26°C	27°C	25°C	
26°C	27°C	30°C	31°C	33°C	
33°C	33°C	30°C	33°C	27°C	

7. a) Determine the median, mean, and mode of the Calgary June temperatures.  
b) Joan says that the average temperature for June was 33 °C. Did she use the median, mean, or mode?  
c) Which measure do you think represents the data the best? Explain.

## What Do You Think Now?

Revisit What Do You Think? on page 335. How have your answers and explanations changed?