

Critical Thinking

The box below shows some prices students paid for mountain and ten-speed bikes. Organize this information and use it to answer the questions below.

Bicycle Prices

\$180, \$275, \$675, \$420, \$385,
\$450, \$610, \$295, \$450, \$145,
\$395, \$265, \$515, \$495, \$235

1. What is the **median** price for a bicycle? How do you know?

2. What is the **mode** price for a bicycle? How do you know?

3. What is the **mean** price for a bicycle? How do you know?

4. Would you use the median, mode, or mean price as your savings goal if you wanted to buy a bicycle? Explain.

5. Suppose you add bicycles that cost \$435 and \$565 to the data set. Will the median, mode, and mean change? If so, what are they now?

6. Would the addition of the new data affect your decision in Question 4? Why or why not?
