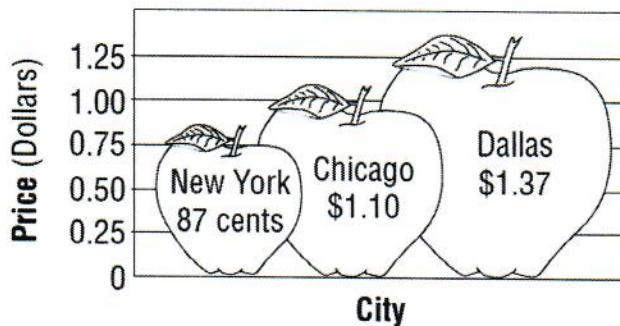Names _____   Date _____

Beware of Bias! Analyzing Misleading Graphs

Look at each graph or set of data carefully with your partner. Discuss your answers to each question, and then record your answers below.

Joseph got 75% on his science test. He told his parents that the <u>mode</u> for the test was 75%. He said, "More students got 75% than any other grade, so I didn't actually do that poorly compared to my classmates." The actual grades on the test were 75%, 75%, 75%, 81%, 85%, 86%, 90%, 94%, 95%, 96%, 96%, 97%, 98%, and 100%, but Joseph did not tell his parents the actual grades.

How did Joseph mislead his parents? _____

_____

_____

**The Price of a Pound of Apples
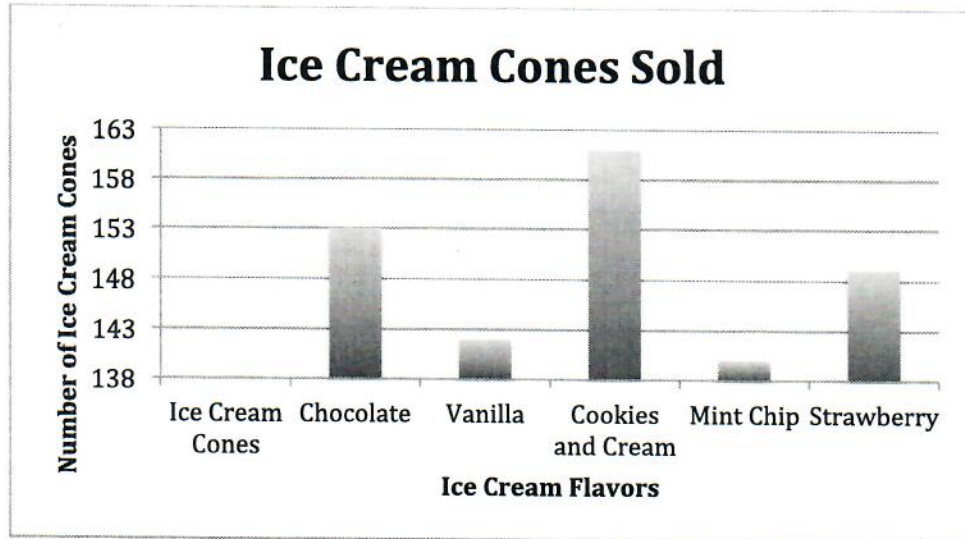in Selected Cities in September 2000**

How is this graph about apple prices misleading? _____

_____

_____

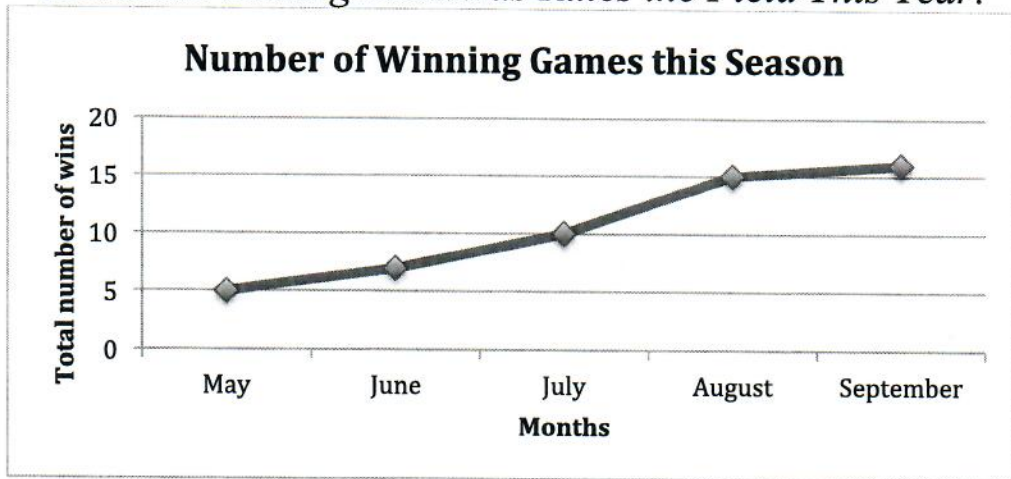How could you change this graph to make it less misleading? _____

_____

_____

Ice Cream Cones Sold

Number of Ice Cream Cones

163
158
153
148
143
138

Ice Cream Cones | Chocolate | Vanilla | Cookies and Cream | Mint Chip | Strawberry

Ice Cream Flavors

What is the range of values used for the scale? _____

How is this bar graph misleading? _____

_____

_____

Headline: Batting Bluebirds Rules the Field This Year!

Number of Winning Games this Season

Total number of wins

20
15
10
5
0

May | June | July | August | September

Months

What does this headline from a sports news article make you think about the Bluebirds performance this season? _____

_____

Does the graph show what the headline suggests? Why or why not? _____

_____