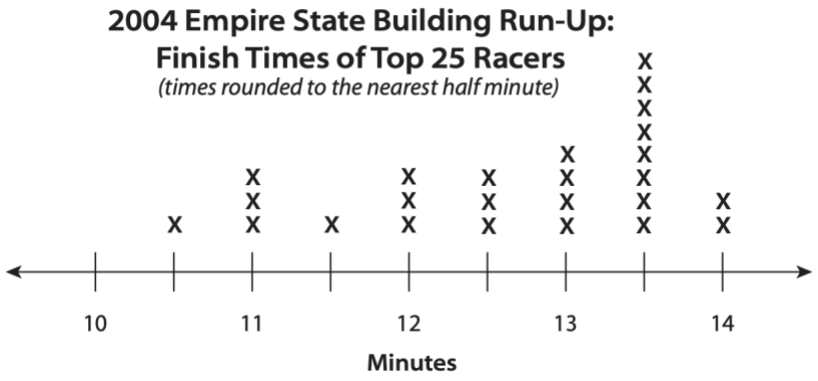
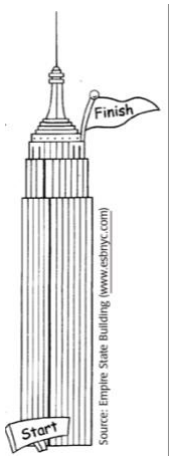
Reading and Drawing Inferences from Graphs

Instructions: Answer the questions below to practice drawing inferences from graphs.

1. Line plot – Who Needs the Elevator?

The Empire State Building Run-Up may just be the world's wackiest race. Each year, racers of all ages scramble up 1,576 steps to the Observatory deck on the 86th floor of the famous New York skyscraper. Look at the line plot to see how quickly the nimblest racers reach the top. Then answer the questions.





a) What was the winner's time for the race?

b) How many racers finished in 13 minutes or less?

c) What was the most common finish time among the top 25 racers?

2. Stem-and-Leaf Diagram: Football Follies

Between 1979 and 1982, the Wildcats football team of Northwestern University racked up a 34-game losing streak—a record in college football. When the team lost, they often lost in a big way! Look at the stem-and-leaf diagram to see how many points the Wildcats lost by in each game. Then answer the questions.

Number of Points Wildcats Lost Games by During 34-Game Losing Streak

Stem	Leaf
0	1 4 7 9
1	2 4 5 6
2	0 1 1 2 5 6 8
3	0 0 0 1 2 3 5 5 6 7 8 8
4	2 7
5	2 2
6	3 4 4

Source: College Football Data Warehouse (www.cfbdatawarehouse.com)

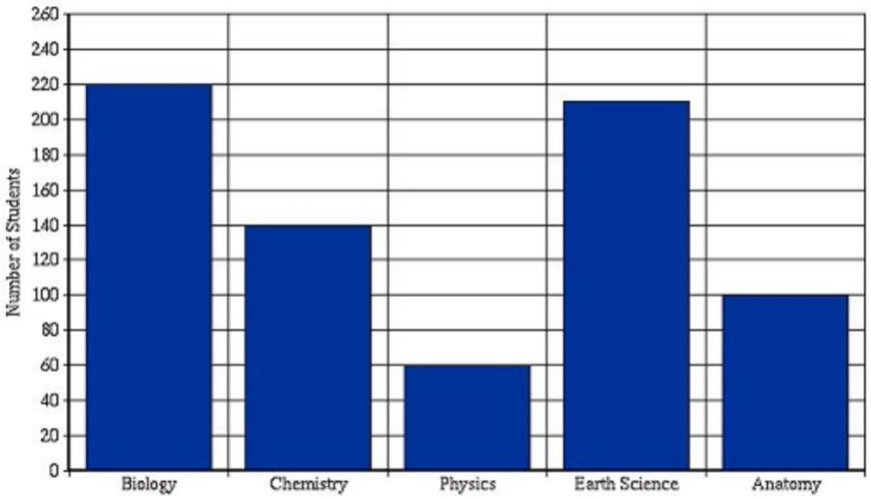
a) What is the smallest number of points the Wildcats ever lost by during the streak?

b) What is the greatest number of points the Wildcats ever lost by during the streak?

c) How many games did the Wildcats lose by fewer than 20 points?

d) How many times did the Wildcats lose by exactly 30 points?

3. The bar graph compares the number of students enrolled in classes at Northeast University.



a) What class has the highest enrollment?

b) How many students are enrolled in Chemistry?

c) How many are enrolled in Anatomy?

d) Which course is the least popular?