# Bar Graphs and Line Graphs

A **bar graph** shows data in specific categories. A **line graph** shows how data change over time.
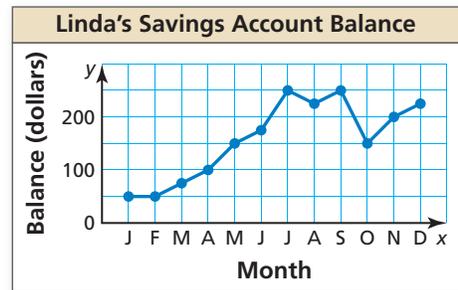
Example 1 **Use the bar graph to answer each question.**

a. On which day of the week were the greatest number of cars parked in the student lot?

▶ The tallest bar on the graph is the bar for Friday. So, the answer is Friday.

b. How many cars were parked in the student lot on Monday?

▶ The bar for Monday shows that about 80 cars were parked in the student lot.

Cars Parked in Student Lot

(Bar graph: Number of cars vs. Weekday — M, Tu, W, Th, F)
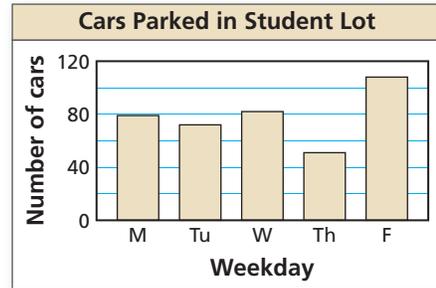
Example 2 **Use the line graph to answer each question.**

a. In which month(s) was Linda's account balance $150?

▶ From the graph, Linda's account balance was $150 in May and October.

b. Between which two consecutive months did Linda's account balance increase the most?

▶ Of the graph's line segments that have positive slopes, the graph is steepest from June to July. So, Linda's account balance increased the most between June and July.

Linda's Savings Account Balance

(Line graph: Balance (dollars) vs. Month — J F M A M J J A S O N D)

Practice

Check your answers at BigIdeasMath.com.

Use the bar graph in Example 1 to answer the question.

1. On which day of the week were the least number of cars parked in the student lot?   Thursday

2. On which day(s) of the week were there about 70 cars parked in the student lot?   Tuesday

3. About how many more cars were parked in the student lot Friday than on Thursday?   60

4. About how many more cars were parked in the student lot on Friday than on Monday?   30

Use the line graph in Example 2 to answer the question.

5. In which month(s) was Linda's account balance $250?   July and September

6. Between which two consecutive months did Linda's account balance decrease the most?   September and October

7. How much less was Linda's account balance in October than in July? $100

8. How much more was Linda's account balance in September than in April? $150