Patterns in Data

The value of most computer equipment decreases each year. Some people use general guidelines to determine the value of their equipment.

Suppose a monitor was purchased for $450. Using one rule of thumb, the monitor will be worth $225 after one year, $112.50 after two years, and $56.25 after three years.

1. What pattern do you see in the value of the monitor for each successive year?

2. If the pattern continues, will the value of the monitor ever be $0.00? Explain.

3. In actuality, will the value of the monitor ever be $0.00? Explain.

Use the data in Exercises 4–7 to draw a circle graph.

4. Give the decrease in value of the monitor as a percent of the original price.
   a. First year
   b. Second year
   c. Third year
   d. Fourth year
   e. Fifth year
   f. Sixth year

5. Add the percents from Exercise 4. Do they total 100%? Explain.

6. How many sectors will be in the graph?

7. Find the central angle for each sector. Then draw the circle graph at the right.
   a. First year
   b. Second year
   c. Third year
   d. Fourth year
   e. Fifth year
   f. Sixth year