Thought Question 1

What is confusing or misleading about the following graph?
Class Make-up on First Day
(Summer 2002)
Pie Chart

Senior 20.9%
Freshman 41.9%
Junior 14.0%
Sophomore 23.3%
Class Make-up on First Day
(Summer 2002)

Bar Graph

<table>
<thead>
<tr>
<th>Year in School</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>41.9%</td>
</tr>
<tr>
<td>Sophomore</td>
<td>23.3%</td>
</tr>
<tr>
<td>Junior</td>
<td>14.0%</td>
</tr>
<tr>
<td>Senior</td>
<td>20.9%</td>
</tr>
</tbody>
</table>
Figure 10.4 Percentage of gross wage earnings paid in income tax and employee Social Security contributions in eight countries in 2006, for Example 3. These percentages are for single individuals without children at the income level of the average worker. (Data from the Organization of Economic Cooperation and Development, www.oecd.org/document/17/0,3343,en_2649_34533_38148433_1111100.html. This figure was created using the Minitab software package.)
Beware of Pictograms

Residential Building Permits Issued in the 11 Counties Comprising the York River Basin

While these are not watershed-specific data, they do reveal the growth trend apparent in the counties that fall within the watershed boundaries. The most rapid growth in building permits between 1995 and 1998 occurred in Hanover and Spotsylvania counties.

Class Make-up on First Day
(Fall Semesters: 1985-1993)

Class Make-up On First Day

Percent of Class That Are Freshman

Year of Fall Semester
Figure 10.8 Percentage increase or decrease in the S&P 500 index of common stock prices, 1971 to 2003, for Example 7. (This figure was created using the SPSS software package.)

Figure 10.9 Value at the end of each year, 1970 to 2003, of $1000 invested in the S&P 500 index at the end of 1970, for Example 7. (This figure was created using the SPSS software package.)
Another Misleading Graph

STATE AND LOCAL PROPERTY TAXES

Source: Bureau of Census

Billions of Dollars

Chart indicates rise in state and local property taxes over 12 years

Figure 4-5.