My learning goals are  
1) Understand the functions of pie chart, line graphs and bar graphs and when to use each kind of chart (i.e. a line graph is for change over time and a pie graph shows the makeup of a group).  
2) Explain the link between the statistic and argument. (I'm not teaching my students his name, but Toulmin's idea of Thesis, Data, Warrant is important here.)  
3) Use a statistic to back-up the argument. (I won't be assessing this on the final exam--this will be in the persuasive speech--I can't require a statistic on an in-class final.)

I'm not assessing the 3rd learning goal this semester.  I will visit that next semester, but my understanding is that assessment doesn't need to do everything all the time.

Rubric  
Question 1: double-y-axis line graph (or 2 line graphs) 2 points, because line graphs show changes over time (2 points). line graph 1 point. (So 4 points, expert, if both parts are correct).  
Question 2: Time is placed on the x axis, amounts are placed on the Y axes (I will also accept 2 line graphs). If student only deals with one set of data points, a maximum of 2 (proficient), or if a student puts time on the Y axis max of 2. If student combines million and billion, they can receive a maximum of 1 (Intermediate). If they use a bar graph correctly, they can receive a 2 (Proficient). If they use a pie chart, they receive a 0.  
  
Question 3: For a 4, The student needs to say that there is no link/correlation between video game sales and violent crime. They can also say that there is a false/cause to say that video games cause violence.  
For a 2, they only deal with one data set.  
For a 1, they say that video games have caused violence to go down.

I'm going to add these questions to the final exam.  Answers are in italics

**U.S. Violent Crime vs U.S. Video Game Sales**

|  |  |  |
| --- | --- | --- |
| Date | Incidents of Violent Crime (in millions) | Video Game revenue (in billions in 1990 $) |
| 1990 | 1.95 | 2.1 |
| 1995 | 1.65 | 2.7 |
| 2000 | 1.45 | 9.8 |
| 2005 | 1.3 | 11 |
| 2010 | 1.25 | 18 |

*From Gamesbrief.com*

What kind of chart or graph(s) would best represent this data and why? (Please be specific)

*(Like graph with double Y axis or 2 line graphs, but I will give partial credit for line graph,*

Please draw that and clearly label all parts

Please write a thesis for a speech that incorporates all this data