NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11.2 Deceptions in Visual Displays of Data

|  |  |
| --- | --- |
| Year | Poverty Rate |
| 2001 | 11.7% |
| 2002 | 12.1% |
| 2003 | 12.5% |
| 2004 | 12.7% |
| 2005 | 12.6% |

The following table shows the Percentage of People in the United

States living below the Poverty Level, 2001-2005.

1. Create a line graph using the table data provided.

Chart, scatter chart

Description automatically generated

2. Create a line graph using the table data provided (note the different Y-scale).

Chart, scatter chart

Description automatically generated

3. Which graph best displays the data? Explain your reasoning.

4. Here is a table that shows the U.S. Poverty Rate from 2001 to 2015. Create a new line graph using the updated table. Explain how does this demonstrate that the graphs you made earlier could be misleading.

|  |  |
| --- | --- |
| Year | Poverty Rate |
| 2001 | 11.7% |
| 2002 | 12.1% |
| 2003 | 12.5% |
| 2004 | 12.7% |
| 2005 | 12.6% |
| 2006 | 12.3% |
| 2007 | 12.5% |
| 2008 | 13.2% |
| 2009 | 14.3% |
| 2010 | 15.1% |
| 2011 | 15.0% |
| 2012 | 15.0% |
| 2013 | 14.5% |
| 2014 | 14.8% |
| 2015 | 13.5% |

5. Make a line graph using the table above.