***The Representation of Data***   In 1990 there were about 20,000 rhinos left in the world, down from 850,000 in 1910. The other figures re 500,000 in 1930, 220,000 in 1950, and 80,000 in 1970.  Below are three ways to display these data -- a table and two charts. They are logically, but not psychologically, equivalent.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year | 1910 | 1930 | 1950 | 1970 | 1990 |
| Rhinos  (in 1000's) | 850 | 500 | 220 | 80 | 20 |

|  |  |
| --- | --- |
| **Figure 3****Rhino data plotted as a bar chart** | 3-3 |

|  |  |  |
| --- | --- | --- |
| **Figure 4****Rhino data plotted as points with connecting lines** |   | 3-4 |

***Exercise*** Predict what you think the rhino population will be in the year 2010. Which of the three above displays was most helpful in making your estimate?

***Exercise*** In 1986 about 130 Florida manatees ("Sea cows") died, but the figure skyrocketed to 415 in 1996. The deaths are largely attributable to human activities (especially speed boat collisions and propeller slashes). The intermediate figures are: 135 in 1988, 200 in 1990, 115 in 1992, and 180 in 1994. Construct a table and two charts for manatee mortality.