NAME _____ DATE _____ PERIOD _____

Practice

Modeling Real-World Data with Linear Functions

Complete the following for each set of data.

a. ***Graph the data on a scatter plot.***

b. ***Use two ordered pairs to write the equation of a best-fit line.***

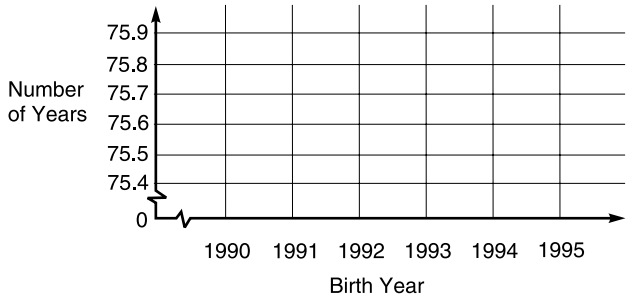
c. ***If the equation of the regression line shows a moderate or strong relationship, predict the missing value. Explain whether you think the prediction is reliable.***

1.

U. S. Life Expectancy	
Birth Year	**Number of Years**
1990	75.4
1991	75.5
1992	75.8
1993	75.5
1994	75.7
1995	75.8
2015	?

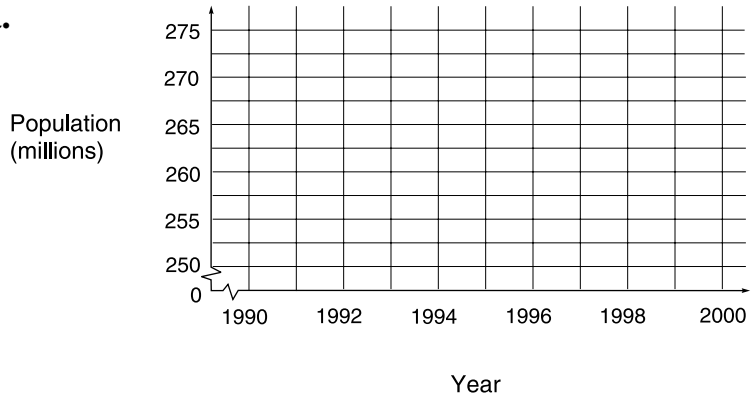
Source: National Center for Health Statistics

a.



2.

Population Growth	
Year	**Population (millions)**
1991	252.1
1992	255.0
1993	257.7
1994	260.3
1995	262.8
1996	265.2
1997	267.7
1998	270.3
1999	272.9
2010	?

Source: U.S. Census Bureau

a.