

Name: _____ Period: _____ Date: _____

Scatter Plots and Trend Lines Assignment

For each table, make the scatter plot of the data. Describe the type of correlation the scatter plot shows.

1.

Number of Questions	2	4	6	8	10
Time taken to Solve (in min.)	10	20	30	40	50

Graph:

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Scatter Plots and Trend Lines Assignment

2.

Hours Worked	2	3	6	8	10
Tips (\$)	36	60	100	141	160

Graph:

Name: _____ Period: _____ Date: _____

Scatter Plots and Trend Lines Assignment

3. Make a scatter plot for the data shown below. Make a trend Line for the data. Write an equation of line for the best fit.

Year	1970	1980	1990	2000	2010
Population (thousands)	9760	11,450	14,556	15,320	16,778

Graph:

Name: _____ Period: _____ Date: _____

Scatter Plots and Trend Lines Assignment

Trend Line:

Equation of line for the best fit:

Scatter Plots and Trend Lines Assignment

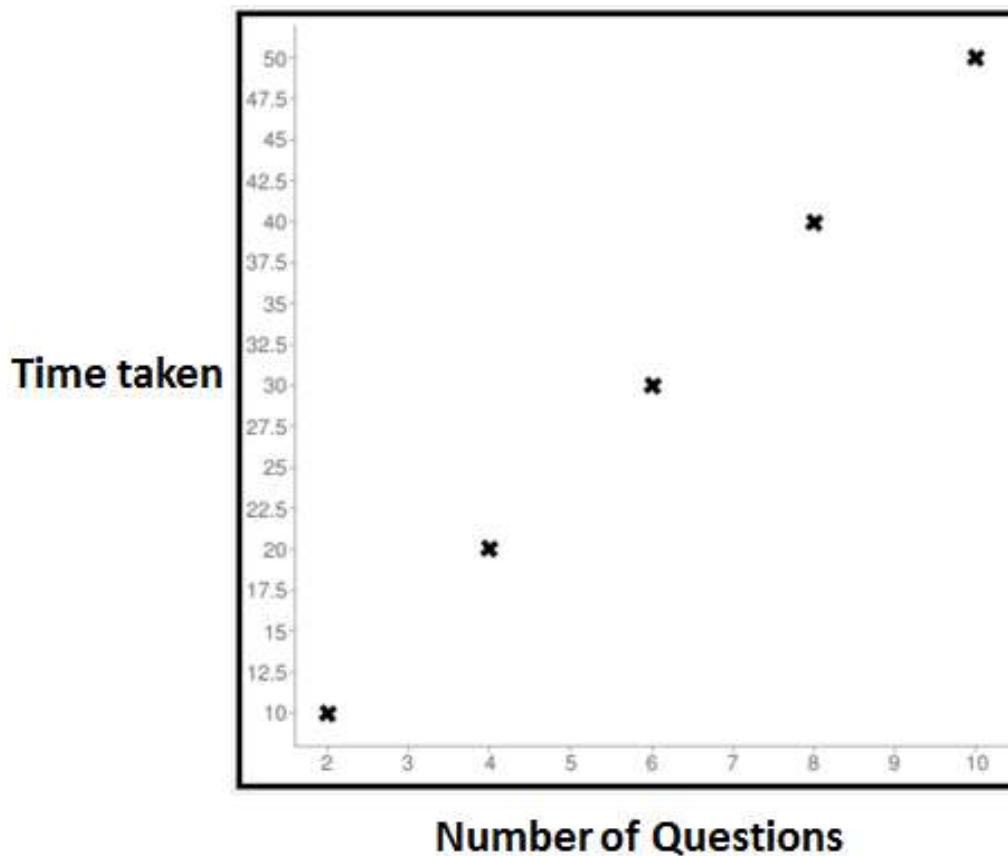
ANSWERS:

For each table, make the scatter plot of the data. Describe the type of correlation the scatter plot shows.

1.

Number of Questions	2	4	6	8	10
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Graph:



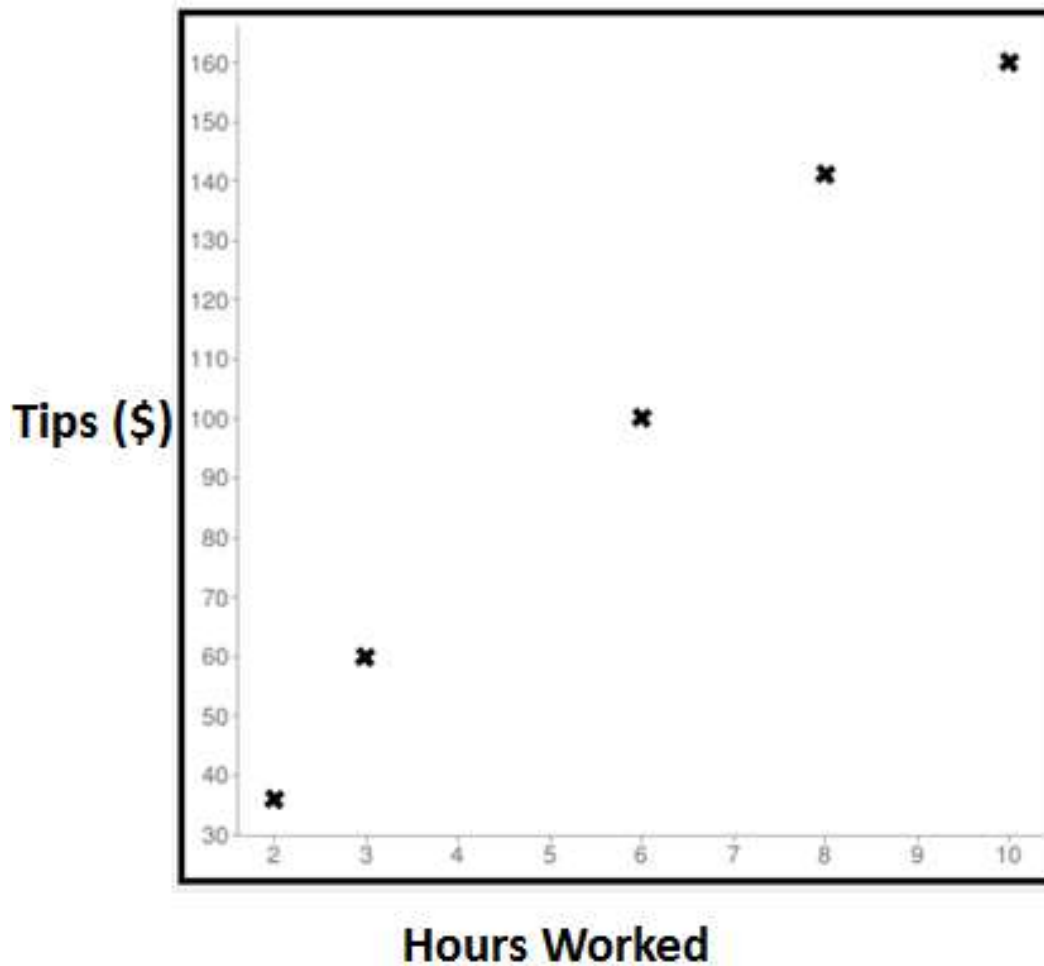
Name: _____ Period: _____ Date: _____

Scatter Plots and Trend Lines Assignment

2.

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Tips (\$)	36	60	100	141	160

Graph:



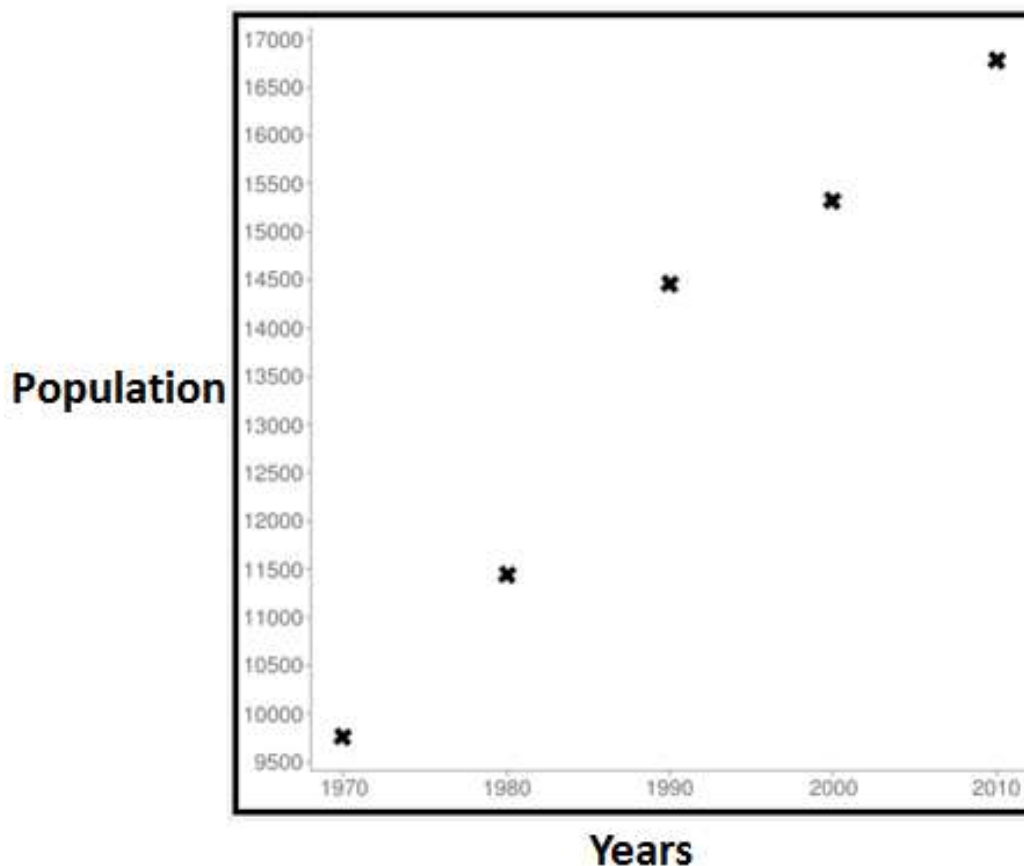
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Scatter Plots and Trend Lines Assignment

3. Make a scatter plot for the data shown below. Make a trend Line for the data. Write an equation of line for the best fit.

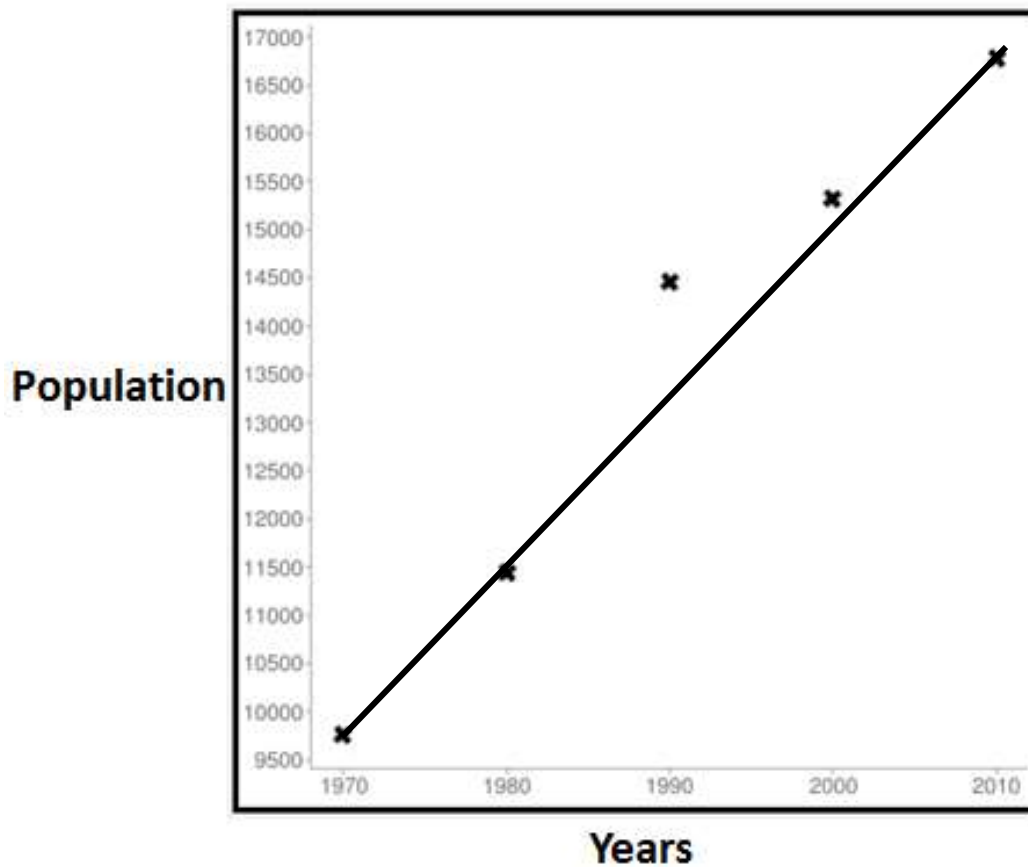
Year	1970	1980	1990	2000	2010
Population (thousands)	9760	11,450	14,556	15,320	16,778

Graph:



Scatter Plots and Trend Lines Assignment

Trend Line:



Equation of line for the best fit:

$$m = \frac{11450 - 9760}{1980 - 1970} = 169$$

$$y - 9760 = 169(x - 1970)$$

$$y = 169x - 332930 + 9760$$

$$y = 169x - 323170$$