 MS-S4 Bivariate Data Analysis

Match the correlation coefficient to the scatterplot

Purpose

This task will enable you to match a correlation coefficient to a scatterplot

Task

1. Examine each scatterplot on pages 3 and 4.
2. Select its correct correlation coefficient from the list and record it in the table below.

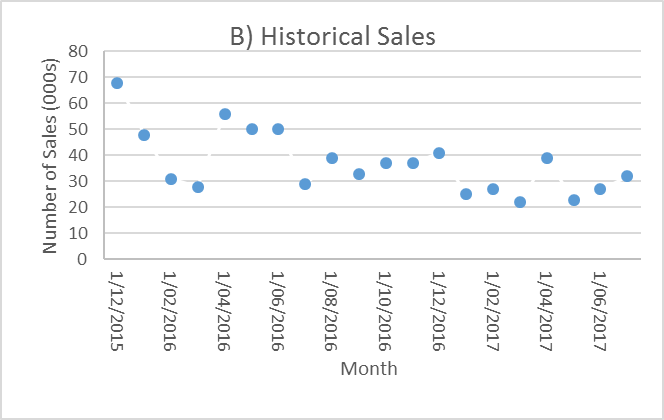
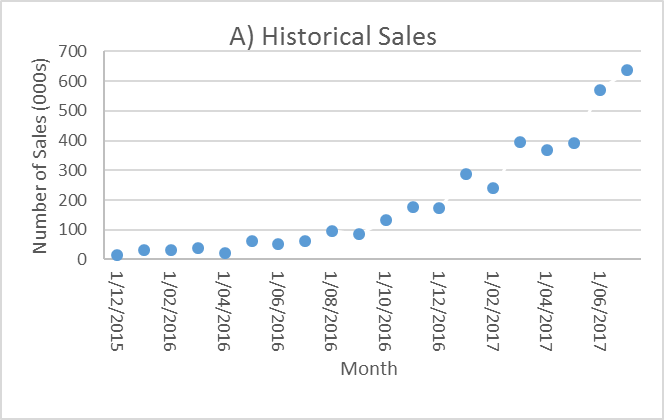
Pearson’s Correlation Coefficients (displayed to 2 decimal places):

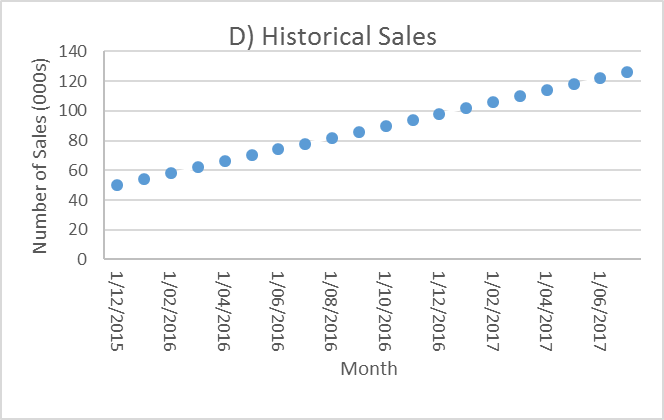
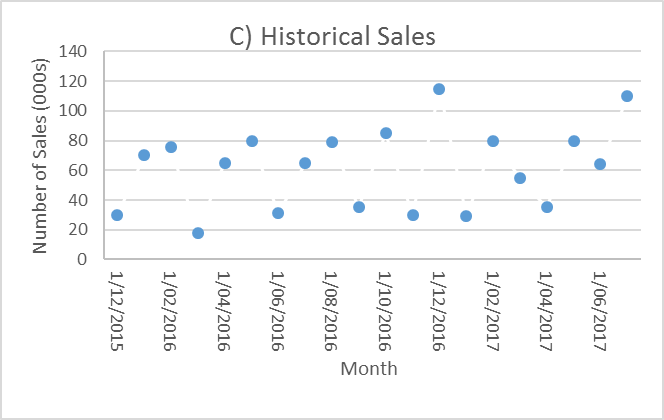
| -1.00 | 0.64 | 0.91 | -0.20 | -0.93 | 0.28 | 1.00 | -0.63 |
| --- | --- | --- | --- | --- | --- | --- | --- |

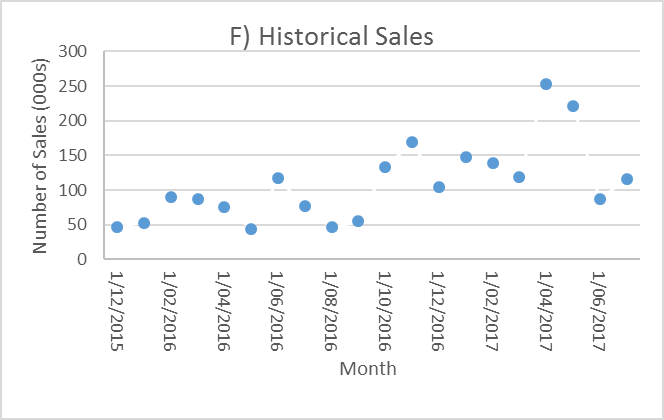
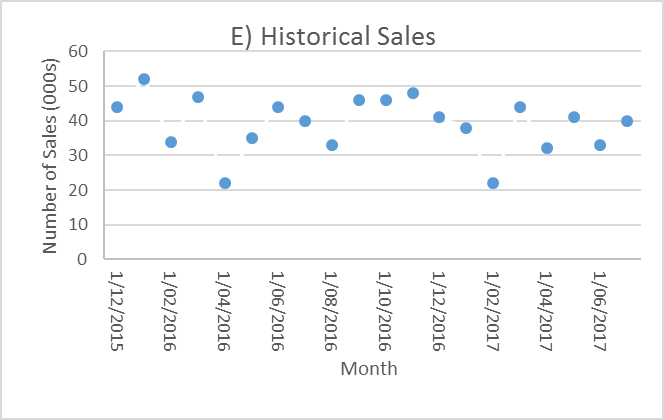
Answer:

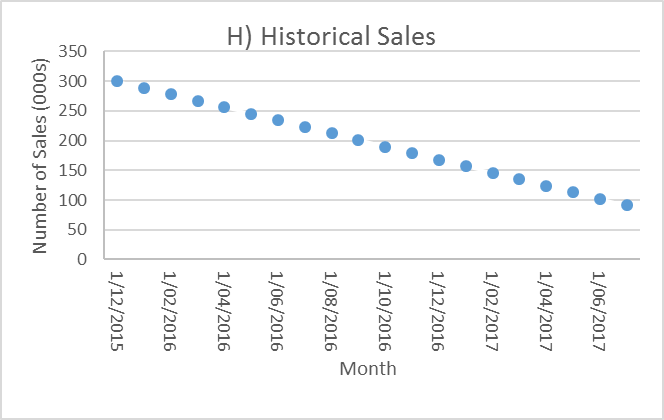
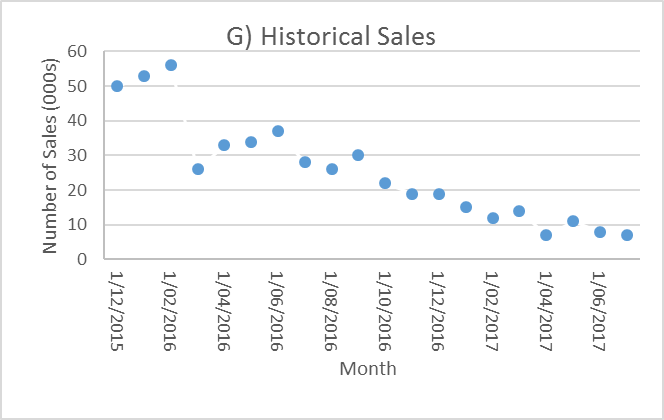
| Scatterplot | Pearson’s correlation coefficient |
| --- | --- |
| A |  |
| B |  |
| C |  |
| D |  |
| E |  |
| F |  |
| G |  |
| H |  |

Scatterplots:









Solution

| Scatterplot | Pearson’s correlation coefficient |
| --- | --- |
| A | 0.91 |
| B | -0.63 |
| C | 0.28 |
| D | 1.00 |
| E | -0.20 |
| F | 0.64 |
| G | -0.93 |
| H | -1.00 |