Use the following data on mother's shoe size and infant birth weight  
a) construct a scatter plot for these data  
b) using alpha = 0.10, test for the significance of the regression slope  
c) construct a 90% confidence interval for the population slope.  
d) discuss your conclusions

|  |  |  |  |
| --- | --- | --- | --- |
| Shoe Size | Weight | Shoe Size | Weight |
| 7.5 | 7.2 | 8.0 | 6.9 |
| 8.0 | 7.8 | 8.5 | 9.2 |
| 9.0 | 8.0 | 7.5 | 6.5 |
| 8.5 | 9.4 | 8.0 | 9.1 |
| 8.5 | 7.7 | 9.0 | 9.8 |

Submit response as an Excel file.