

Instructions: You must show all work to receive full credit for the problems below. You may use Excel where appropriate. Any datasets needed will be posted on Blackboard with the quiz file, and you should submit such work along with your quiz. Round answers to two decimal places unless other instructions are given in the problem.

1. Use the sequence of values 6.5, 7.8, 9.1, 10.4, 11.7, 13, 14.3, ... to determine if the sequence is a linear relationship or another kind. If linear, what is the slope (common difference)?

2. The linear equation $y = 0.017x - 0.0848$ models the relationship between the price of gold x and the price of silver y . Interpret the slope in the context of the problem. The intercept cannot be interpreted. Explain why not.

3. A scatterplot is shown. Does there appear to be a strong relationship between the variables? If so, is the relationship linear or nonlinear?

