Case study on correlation & regression

The table below shows some data from the early days of the Italian clothing company Benetton. Each row in the table shows Benetton's sales for a year and the amount spent on advertising that year. In this case, our outcome of interest is sales—it is what we want to predict.

	Sales	A -111-1
**	(Million	Advertising
Year	Euro)	(Million Euro)
1	651	23
2	762	26
3	856	30
4	1,063	34
5	1,190	43
6	1,298	48
7	1,421	52
8	1,440	57
9	1,518	58

- First, the manager of Benetton wants to check whether there is any relationship between the Sales figures and the amount spent on Advertising. So, he should check that.
- 2. The manager of the clothing company wants to test whether his model is predicting the exact or nearby figures to the sales figures already given? What will he do?
- 3. What will be the squared error between the actual values for Sales and predicted values for Sales?
- 4. If the advertising was done for an amount of 60 million Euros for the 10th year, what will be the Sales figure for the 10th year?

Please note the following:

Write your answers in a word doc and show the calculations in an excel sheet. You must do a screen recording of your work which needs to be submitted. Please follow 'video submission guidelines' for submitting.