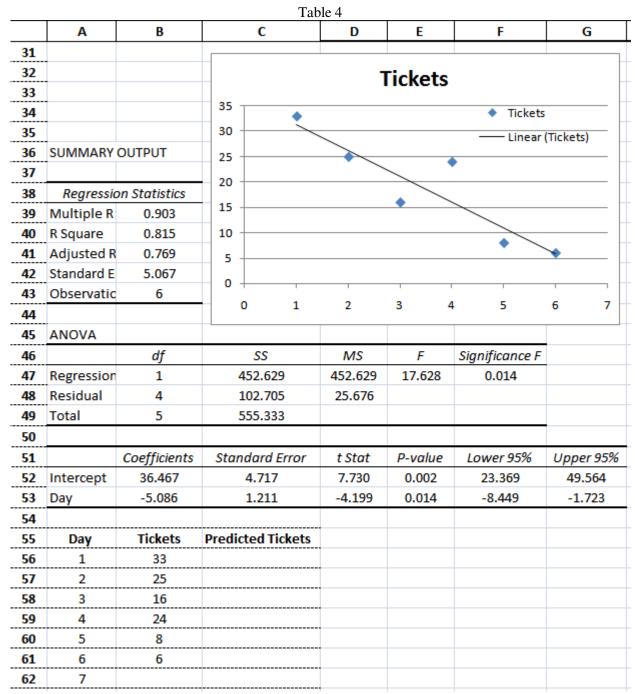
Regression Problem:

Table 4 below shows the Summary Output for using regression analysis to forecast the daily number of tickets for the last six days. Answer the following questions based on the information provided in Table 4.



^{(1) (5} pts.) What is the general linear model to be used to model the linear trend for the number of tickets?

(2)	(12 pts	s.) What is
	a.	the value of b_1 as the estimated value of β_1 ,
	b.	interpret the meaning of β_1 and b_1 ?
(3)	If you a	are asked to predict the number of tickets for Day 7, (6 pts.) Write out the Excel@ formula in Cell C62 of the regression function?
	b.	(3 pts.) Calculate the predicted number of tickets for Day 7?
(4)	Output	e p-value approach to test the population parameters β_1 with the p-value from Table 4 Summary , and state your conclusion. Assume a significant level α value of 5%. (2 pts.) What are the H_0 and H_1 ?
	b.	(3 points) What are the decision rules?
	c.	(2 pts.) What is the conclusion?
(5)	In term	as of the prediction confidence interval: (2 pts.) What is the margin of error for an approximate 95% prediction interval of the Number of tickets for Day 7?
	h	(3pts.) What is the approximate 95% prediction intervals of Number of tickets for Day 7?