The following data represent the development of a certain population P in time t.

t (days)	1	2	3	4	5	6	7
P (population number)	43	58	76	90	97	106	112

a) Determine the best way to model the data, for example by a logistic model.
b) Determine appropriate parameters for the model type chosen.
c) Calculate the relative error of your model.
d) Use the model to predict the time at which the initial population number is increased by a factor of 2.