

Tourism The table shows the distribution of the nights spent in tourist accommodation establishments by percent per month for each of the island countries of Cyprus and Malta. (Source: eurostat)

Spreadsheet at
LarsonPrecalculus.com

Month	Cyprus	Malta
January	1.4	4.6
February	1.8	5.4
March	3.1	7.1
April	5.6	8.2
May	11.3	9.2
June	13.5	9.7
July	15.7	11.5
August	16.1	11.9
September	13.8	9.9
October	12.0	9.8
November	3.9	6.9
December	1.8	5.6

- Use a graphing utility to create a scatter plot of the data for Cyprus, with $t = 1$ corresponding to January. What type of model will best fit the data?
- Use the *regression* feature of the graphing utility to find a model for the data for Cyprus. Use the graphing utility to graph the model with the scatter plot from part (a). Is the model a good fit? Explain.
- Use a graphing utility to create a scatter plot of the data for Malta, with $t = 1$ corresponding to January. What type of model will best fit the data?
- Use the *regression* feature of the graphing utility to find a model for the data for Malta. Use the graphing utility to graph the model with the scatter plot from part (c). Is the model a good fit? Explain.
- According to the models, which month has the greatest number of nights spent in tourist accommodation establishments in Cyprus? in Malta? Do your results agree with the data? Explain.
- Which island has the greater variation in the percents per month? Justify your answer using the graphs.
- During which month might it be least expensive for a tourist to visit Cyprus? to visit Malta? Explain your reasoning.