

Growth in a Population of Flies

The data for the activity is provided in the second and third columns of the table below. We will use the remaining columns as we address the questions in the activity.

Change in Days Δt	Day Number t	Number of Flies $F(t)$	Change in Fly Popu. $\Delta F(t)$	Ave Rate of Growth $\Delta F(t)/\Delta t$	Ave Proportionate Growth Rate $[\Delta F(t)/\Delta t]/F(t-1)$
	0	111			
	1	122			
	2	134			
	3	147			
	4	161			
	5	177			
	6	195			
	7	214			
	8	235			
	9	258			
	10	283			

In the space below predict the shape of the graph of the size of the fly population vs the day number. Place the day number on the horizontal axis. Also, describe how you think the number of flies is changing with respect to time.

Now, plot the actual data using the graph below.

