

Oh, Deer!



Group # _____

Names _____

A population of four hundred deer has contracted a deadly virus. All the deer in the population have contracted the disease. Each week $\frac{1}{4}$ of the remaining deer population has a chance of succumbing to the virus. Once it has the virus, the poor deer dies. Model this situation using M&M's and find a mathematical function that predicts the number of deer remaining in the population after x weeks. **Note: Be sure to keep track of the number of deer that survived each week, not the number of deer that died.**

Group Data

Time Interval	Surviving Population
0	
1	
2	
3	
4	
5	
6	
7	
8	

Pooled Data

Time Interval	Surviving Population
0	
1	
2	
3	
4	
5	
6	
7	
8	

Write an equation that models Surviving Population as a function of Time Interval:

Explain why it makes sense that your function fits this situation.

