1. Can you explain the concept of probability in everyday life?
2. How does the concept of exponential growth differ from linear growth? Can you provide an example of each from real-world phenomena?
3. Considering the concept of exponential growth, how would you explain the importance of early intervention in controlling the spread of a contagious disease?
4. Given the previous question, can you sketch a graph to illustrate the exponential spread of a disease over time? Please label your axes, starting with Patient X being infected at time t=0. Assume that the number of infected individuals doubles at each subsequent time interval. Indicate this growth factor of 2 on your graph.
5. Can you discuss how different strategies might alter the shape of this curve?