

Name:

Answer!

Class:



Communication



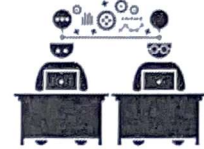
Successful Partnership



Encouragement

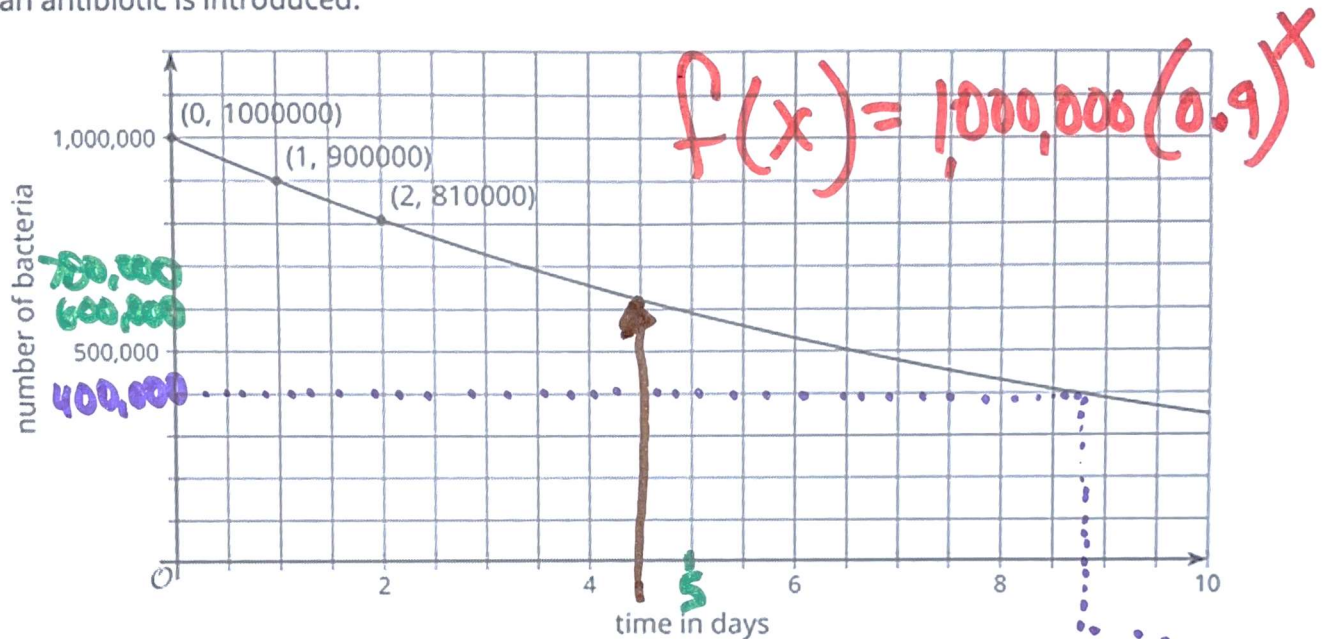


Solving Problem Together



Collaboration

The graph shows the bacteria population on a petri dish as a function  $f$  the days  $d$  since an antibiotic is introduced.



1. What is the approximate value of  $f(4.5)$ ?

625,000

2. Approximately what is  $d$  when  $f(d) = 400,000$ ?

8.75

3. Explain what you would do, using your usual graphing technology, to be able to see  $f(15)$  on the graph.

$$f(15) = 1,000,000(0.9)^{15}$$

$$f(15) = 205,891.132095 \approx 206,000$$