

Name:

Answers!

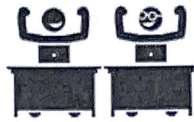
Class:



Communication



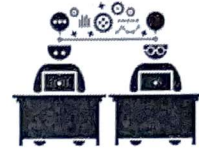
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

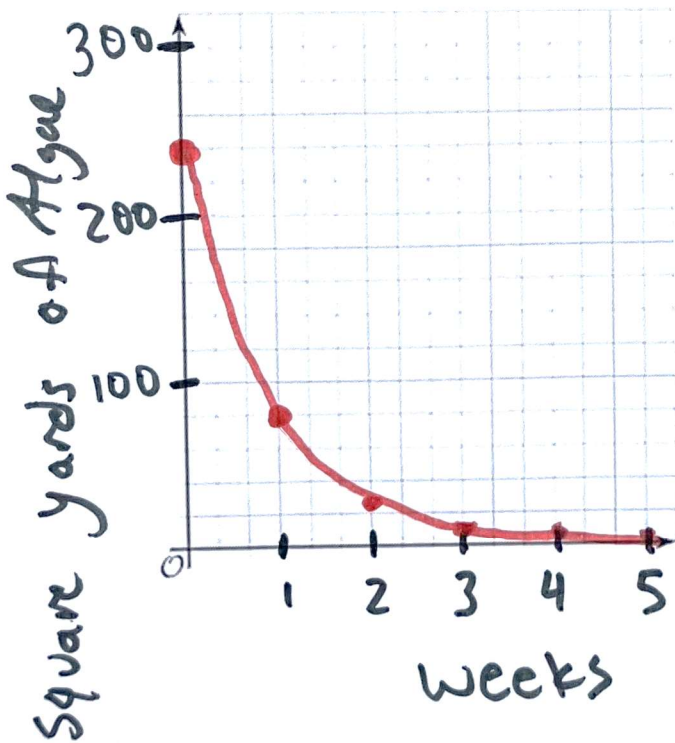
In order to control an algae bloom in a lake, scientists introduce some treatment products.

Once the treatment begins, the area covered by algae A , in square yards, is given by the equation $A = 240 \cdot \left(\frac{1}{3}\right)^t$. Time, t , is measured in weeks.



240 is initial amount
 $\frac{1}{3}$ means $\frac{2}{3}$ of algae is gone every week

- In the equation, what does the 240 tell us about the algae? What does the $\frac{1}{3}$ tell us?
- Create a graph to represent $A = 240 \cdot \left(\frac{1}{3}\right)^t$ when t is 0, 1, 2, 3, and 4. Think carefully about how you choose the scale for the axes. If you get stuck, consider creating a table of values.



t x-axis	A y-axis
0	240
1	80
2	26.7
3	8.9
4	3.0
5	1.0