

Lesson 5-7 → Interpreting Equations of Exponential Functions

The following function shows the population of bacteria per month, x .

$$f(x) = 200 \left(\frac{4}{5}\right)^x$$

We know:

- ① Bacteria started with a population of 200
- ② $\frac{4}{5} < 1$ so population shrinking
- ③ Population loses $\frac{1}{5}$ or 20% every month