## Warm-up 4/25

1.  $y = 5200(3^{x})$  is the model of growth per day of mold spores for a type of mold. A loaf of bread can hold a maximum of 456,800,000,000 mold spores.

- What things do you know about the mold spores and its growth from the equation?
- How long will it take to completely take over the loaf of bread?

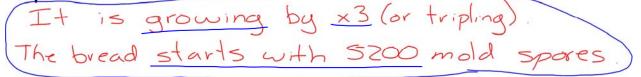
2. A tour boat leaves the dock and travels to an awesome amusement park at 8 miles per hour for x hours. The return trip to the dock takes y hours at 12 miles per hour. The boat ride takes a total of 5 hours. **How long was the trip from the dock to the amusement park?** 

How far is the dock from the wildlife park?

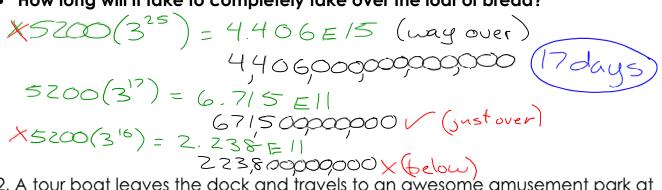
### Warm-up 4/25

1.  $y = 5200(3^{x})$  is the model of growth per day of mold spores for a type of mold. A loaf of bread can hold a maximum of 456,800,000,000 mold spores.

What things do you know about the mold spores and its growth from the equation?



• How long will it take to completely take over the loaf of bread?



2. A tour boat leaves the dock and travels to an awesome amusement park at 8 miles per hour for x hours. The return trip to the dock takes <u>y hours</u> at 12 miles per hour. The boat ride takes a total of 5 hours.

How long was the trip from the dock to the amusement park?

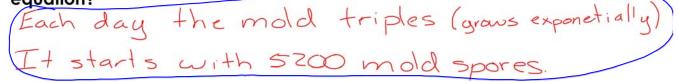
$$\begin{cases} x = 12y & x + y = 5 \\ y = \frac{7}{3x} & \frac{-x}{y} & \frac{-x}{x} & \frac{-x}{y} \\ y = 5 - x & y = 5 - x \\ 8x = 12(5 - x) \\ 8x = 60 - 12x \\ \frac{+12x}{20x^{-}60} & x = 3 \\ \end{cases}$$
How far is the dock from the wildlife park?

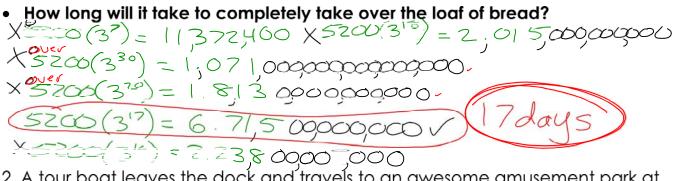


#### Warm-up 4/25

1.  $y = 5200(3^{x})$  is the model of growth per day of mold spores for a type of mold. A loaf of bread can hold a maximum of 456,800,000,000 mold spores.

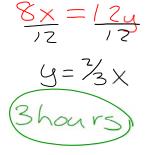
 What things do you know about the mold spores and its growth from the equation?

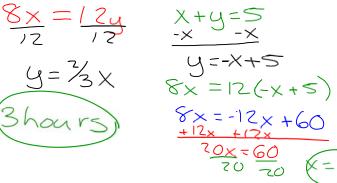




2. A tour boat leaves the dock and travels to an awesome amusement park at 8 miles per hour for x hours. The return trip to the dock takes y hours at 12 miles. per hour. The boat ride takes a total of 5 hours.

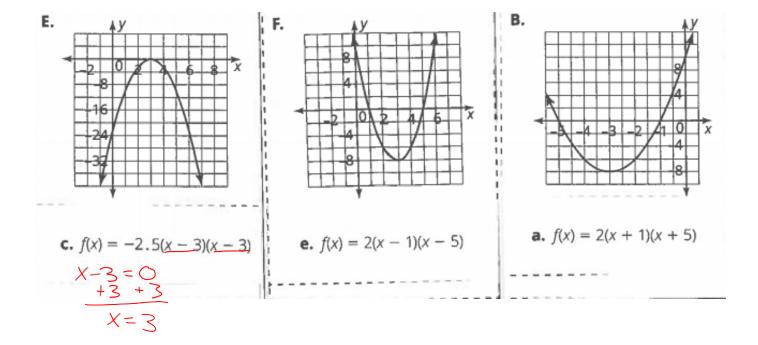
How long was the trip from the dock to the amusement park?

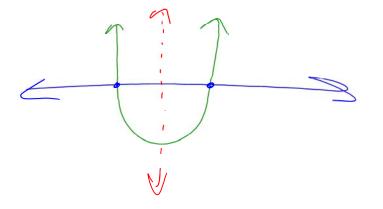




How far is the dock from the wildlife park?

8(3)=(24miles)





# Homework

## USATestPrep Benchmark