

Henry is conducting an experiment with 800 bacteria. He found the exponential growth rate to be 2.7% per hour. What is the amount of bacteria present after 21 hours? Round to the nearest whole number. (Hint: Use the exponential growth formula: $y = b(1+r)^t$)

Let's formulate an equation first. For exponential growth, we follow the formula. $b = 800$, $r = 0.027$. Hence,

$$y = 800(1+0.027)^t$$

Then, at $t = 21$, y will be determined

$$y = 800 (1+0.027)^{21}$$

$$y = 1399.81 = 1400$$

Thus, the amount of bacteria present after 21 hours is 1400.

A spike in the popularity of Nassau groupers in American restaurants causes a sharp increase in grouper fishing. How will this affect the population of yellowtail snappers?

Why must the Senate approve the president's cabinet appointments?

Jetta was at her favorite coffee shop reading her psychology textbook. She was so engrossed with the material that she did not see her friend Willy coming up behind her. Willy approached her chair and tapped her back. Though she never learned to respond this way, Jetta jumped in surprise because Willy's tap had startled her. Which of the following would be considered the unconditioned response in this scenario? A) Jetta's jump B) the coffee shop C) chatting with Willy D) Willy E) reading her textbook

A mutation in a gene that controls mitosis in cells may cause? a) cancer. b) cystic fibrosis. c) albinism. d) meiosis.

Desert plants are often widely spaced due to competition for rainwater. Please select the best answer from the choices provided T F

can u tell me if the following irony is dramatic, verbal, or situational: In toy story, human characters are not aware that the toys speak and move while the audience is aware. The second one is: A character orders poisoned food that is supposed to kill him or her and the audience already knows that the character is destined to die from food poisoning. The third one is: Exclaiming "oh great" after failing the exam and the last one is: In star wars, the audience knows that Darth Vader is Luke's father, but Luke does not know until episode

During World War II, the Allies were able to go on the offensive against Japan after

1/4hour 1/2hour 3/4 what is the total amount of time

How many bacteria can fit the period at the end of a sentence

Decision taken in a democracy is accepted by the majority of people. Do you agree with this statement?

The student population at a university is currently 400. The expected annual rate of increase is predicted to be 0.02. What will the population be in 5 years?
Round your answer to the nearest whole number

Olga simplifies the expression $x + 7x$ to $7x^2$. Use the drop-down menus to complete the statements below to explain why Olga's solution is correct or incorrect.
The ____ tag is used to bring an image into a website.

(I need the blank for tag)

PLEASE HELP ASAP! you WILL get BRAINLIEST! Aameena's boat travels 35 miles per hour. The best fishing spot in the lake is 27 miles away from her starting point.

a. If she drives her boat for $\frac{2}{3}$ of an hour, will she make it to the best fishing spot in the lake?

b. How long will Aameena need to drive to get to the best fishing spot in the lake? Express your answer in both a portion of an hour and in minutes.

A compound is found to consist of 1.37g of iron and 2.62g of chlorine. what is the percent by mass of chlorine in the compound?

isabel lives $\frac{3}{4}$ mile from school, Janet lives $\frac{2}{3}$ mile from school how much farther in miles does isabel live from school than Janet?

1. Artists in the postwar years began to question reality. true or false?

2. Germany did its best to make its required reparation payments on time.

true or false?

Markup and markdowns

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