

**A roller coaster car is traveling down a track at 22 m/s. The car has a mass of 2000 kg. What is the Kinetic energy of the car? A) 22,000 J
B) 968,000 J
C) 484,000 J
D) 44,000 J**

The kinetic energy of the car is 484000 J

Explanation:

Given

Velocity = 22 m/s

Mass = 2000 kg

To Find:

Kinetic energy of the car= ?

Solution:

Kinetic energy of the car is given by

Where

m= mass of the car

v= velocity

KE = kinetic energy

So, substituting the values

$$KE = \frac{1}{2} \times (2000 \times 22^2)$$

$$KE = 484000 \text{ J}$$

I found out the correct answer! All you have to do is plug in the numbers 2000 into m and 22 into v. In the equation: $x = \frac{1}{2} * m * v^2$ Where x equals kinetic energy. So the answer is C)

Calculate the molarity of 34.2 grams of sugar $C_{12}H_{22}O_{11}$ in 300.0 ml of solution

The cost method that will yield the highest taxable income during times of inflation is the a. weighted average inventory cost method. b. FIFO inventory cost method. c. specific identification inventory cost method. d. LIFO inventory cost method.

Chico Alvarez obtained a loan of \$2,400 to install a new roof on his home. The interest rate is 12%. What is the interest on the first monthly payment?

What happened as a result of the Gulf of Tonkin incident in which U.S. and North Vietnamese navy ships fired at each other?

What can we conclude about the structure of Earth's interior knowing that the average density of Earth is higher than the average density of the rock on the continents and seafloor?

$6xy^{-2} / x^{-3} = 6x \text{ ___ } / y^2$, fill in the blank. Please help.

All living things are made up of how many cells? Question 1 options: one or more two or more three or more many Which of the following is an advantage for a single-celled organism?

Question 2 options: It can tolerate all environmental conditions. It does not have to maintain its structure. It can become very large. It can reproduce quickly.

1.13 Quiz: Single-celled Organisms Pool 3 Question 3 (2 points) Question 3 Unsaved Which types of organisms were the very first living things on Earth?

Question 3 options: Unicellular organisms The first living things on Earth were not made of cells. Multicellular organisms Both multicellular and unicellular organisms Question 4

(2 points) Question 4 Unsaved Which statement BEST describes how decomposers obtain energy? Question 4 options: They use carbon dioxide to obtain energy. They feed on dead organisms. They make their own food using water. They can obtain energy from the sun.

European explorers were sent to the new world for?

Two particles travel along the space curves $r_1(t) = t, t^2, t^3$ $r_2(t) = 1 + 4t, 1 + 16t, 1 + 52t$. Find the points at which their paths intersect. (If an answer does not exist, enter DNE.) $(x, y, z) = (\text{smaller } x\text{-value}) (x, y, z) = (\text{larger } x\text{-value})$ Find the time(s) when the particles collide. (Enter your answers as a comma-separated list. If an answer does not exist, enter DNE.) $t =$

The hero is always a loner, riding off into the sunset. employers expect key employees to make critical decisions alone; rewards are given to individuals, not to teams. this describes a culture that is _____.

What is 78.6 in word form

Pre AP Cell Energy Review 1. Explain how energy is stored and released in a molecule of ATP. 2. Explain the difference between anabolic pathways and catabolic pathways and identify the type of pathway of photosynthesis and respiration. 3. Explain how the amount of ATP is indirectly related to the amount of calories per gram. 4. Explain the difference between photosynthesis and chemosynthesis in energy conversion for autotrophs and where you would expect to find chemosynthetic autotrophs. 5. What is the chemical equation for photosynthesis

Marcus Harvey defined self-reliance as cultural interdependence

economic independence

political independence

freedom of speech

Deciding how to get home is considered a routine decision. t or f

One important factor influencing the delivery of health care is

Blank is a type of complex carbohydrate that is not digested by the human body or broken down into sugar as other carbohydrates are. A. Vitamins

B. Water

C. Fat

D. Fiber

How does Gertrude's reaction advance the plot of the play?

2 Points Which statement best describes the function below?

$$f(x) = 2x^2 - 3x + 1$$

A. It is a one-to-one function.

3. It fails the vertical line test.

c. It is a many-to-one function.

D. It is not a function.

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