

Which of the following statements is true of combustion reactions? A. Hydrogen gas (H₂) must be one of the reactants

B. Water (H₂O) is always a product

C. Energy is released by the reaction

D. Carbon monoxide (CO₂) is always produced

Gasoline contains C and H atoms. During combustion, the carbon (C) from the fuel combines with oxygen (O₂) from the air to produce carbon dioxide (CO₂).
 $2 \text{C}_8\text{H}_{18} + 25 \text{O}_2 \rightarrow 16 \text{CO}_2 + 18 \text{H}_2\text{O}$.

Combustion reactions release large amounts of heat. They have negative enthalpy. A negative enthalpy represents an exothermic reaction, releasing heat. This reaction is spontaneous and exothermic, since we can obtain energy from the reaction; the ΔG (free energy) is negative (So 1 is true).

$\Delta G < 0$, so the free energy of the system decreases with the reaction. Remember that when there is a negative ΔG the reaction goes from higher free energy to lower free energy, like in this case.

Answer: Option (B) is the correct answer.

Explanation:

A chemical reaction in which a hydrocarbon combines with oxygen atom that is present in air to yield carbon dioxide and water along with the products.

For example,

Here, methane undergoes combustion reaction to yield carbon dioxide and water as the products.

Hence, we can conclude that the statement water () is always a product, is true of combustion reactions.

A syndicated loan: a. represents a loan by a single bank to a syndicate of corporations. b. represents a loan by a single bank to a syndicate of country governments. c. represents a direct loan by a syndicate of oil-producing exporters to a less developed country. d. represents a loan by a group of banks to a borrower. e. A and B

Which is one function of steroids? a) waterproofing leaves and feathers

b) insulating and protecting bones and organs

c) serving as chemical messengers

d) providing energy storage

Why did the civil war start

What is the average salinity of ocean water 34.5 g/kg

0.345g/kg

3.45g/kg

345g/ml

Which two lines in this excerpt from John Keats's "Ode to Autumn" reflect the theme of growth and maturation? Season of mists and mellow fruitfulness,

Close bosom-friend of the maturing sun;

Conspiring with him how to load and bless

With fruit the vines that round the thatch-eaves run;

[To bend with apples the moss'd cottage-trees,]

And fill all fruit with ripeness to the core;

[To swell the gourd, and plump the hazel shells]

With a sweet kernel; to set budding more,

And still more, later flowers for the bees,

[Until they think warm days will never cease,]

For summer has o'er-brimm'd their clammy cells.

Who hath not seen thee oft amid thy store?

Sometimes whoever seeks abroad may find

[Thee sitting careless on a granary floor,]

Thy hair soft-lifted by the winnowing wind;

Or on a half-reap'd furrow sound asleep,

[Drowsed with the fume of poppies,]

while thy hook Spares the next swath and all its twined flowers:

And sometimes like a gleaner thou dost keep

Steady thy laden head across a brook;
Or by a cider-press, with patient look,
[Thou watchest the last ooziings, hours by hours.]

Answer choices : (pick 2)

- A. To bend with apples the moss'd cottage-trees,
- B. To swell the gourd, and plump the hazel shells
- C. Until they think warm days will never cease,
- D. Thee sitting careless on a granary floor,
- E. Drowsed with the fume of poppies,
- F. Thou watchest the last ooziings, hours by hours.

What is 4th grade distributive property

Perry is 1.7 m tall. Convert this measure to dm

12. Which of the following can be considered an entire ecosystem?
- a. a small patch of farmland
 - b. the underside of a large rock
 - c. a stream flowing through a pasture
 - d. All of the above

una escalera de 12ft de longitud esta apoyada contra una pared, de modo que su base se encuentra a 4 ft de la pared a nivel del suelo. cual es la altura de la pared hasta donde esta recargada la pared??

Jeanne claims that an equation of the form $y = xn + 28.3$, where n is a whole number, represents a nonlinear function. Describe all values of n for which Jeanne's claim is true and all values of n for which Jeanne's claim is false. Explain.

18) Carrie is buying bulk candy for a high school fundraiser. She buys 1000 candy bars for \$350. What is the unit cost per candy bar?

True or false: failure to pay child support can result in the suspension of your license. true false

Which numbered organelle produces ATP during cell respiration? A) 1 B) 7 C) 9 Eliminate D) 13

You're an hourly employee who works for the local government. Based on the document, when would you need to submit a RAD approval form?

- A. when you use mobile technology to fill in for a coworker
- B. when you want to request a change in your normal work hours
- C. when you need to make personal phone calls during work hours
- D. when you want to work from home during your normal work hours
- E. when you use an office computer to work from home over the weekend

In the context of the Fourth Amendment, the courts have ruled that: _____. A. Recordings by the FBI of various telephone calls made by a U.S. citizen from a public phone booth do not violate an individual's privacy. B. Federal agents can listen to phone conversations of U.S. citizens. C. Without a warrant without a reasonable expectation of privacy, there is no privacy right. D. The Fourth Amendment is no longer valid.

What is the first reaction to the king's death and whose is it

WILL MARK AS BRAINLIEST ASAP!!! PLEASE HELP!!! What is the main idea of this excerpt of Abraham Lincoln's Second Inaugural Address? On the

occasion corresponding to this four years ago, all thoughts were anxiously directed to an impending civil-war. All dreaded it — all sought to avert it. While the inaugural address was being delivered from this place, devoted altogether to saving the Union without war, insurgent agents were in the city seeking to destroy it without war — seeking to dissolve the Union, and divide effects, by negotiation. Both parties deprecated war; but one of them would make war rather than let the nation survive; and the other would accept war rather than let it perish. And the war came.

- A.
Both the Union and the Confederacy wanted to destroy their enemy.
 - B.
Both the Union and the Confederacy were responsible for the Civil War.
 - C.
Both the Union and the Confederacy desired total authority by eliminating the other.
 - D.
Both the Union and the Confederacy suffered huge economic losses due to the Civil War.
 - E.
Both the Union and the Confederacy had stockpiled deadly weapons for the Civil War.
- Find volume of rectangular prism length $(4x+3)$ width $(x-6)$ height $(2x-1)$

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