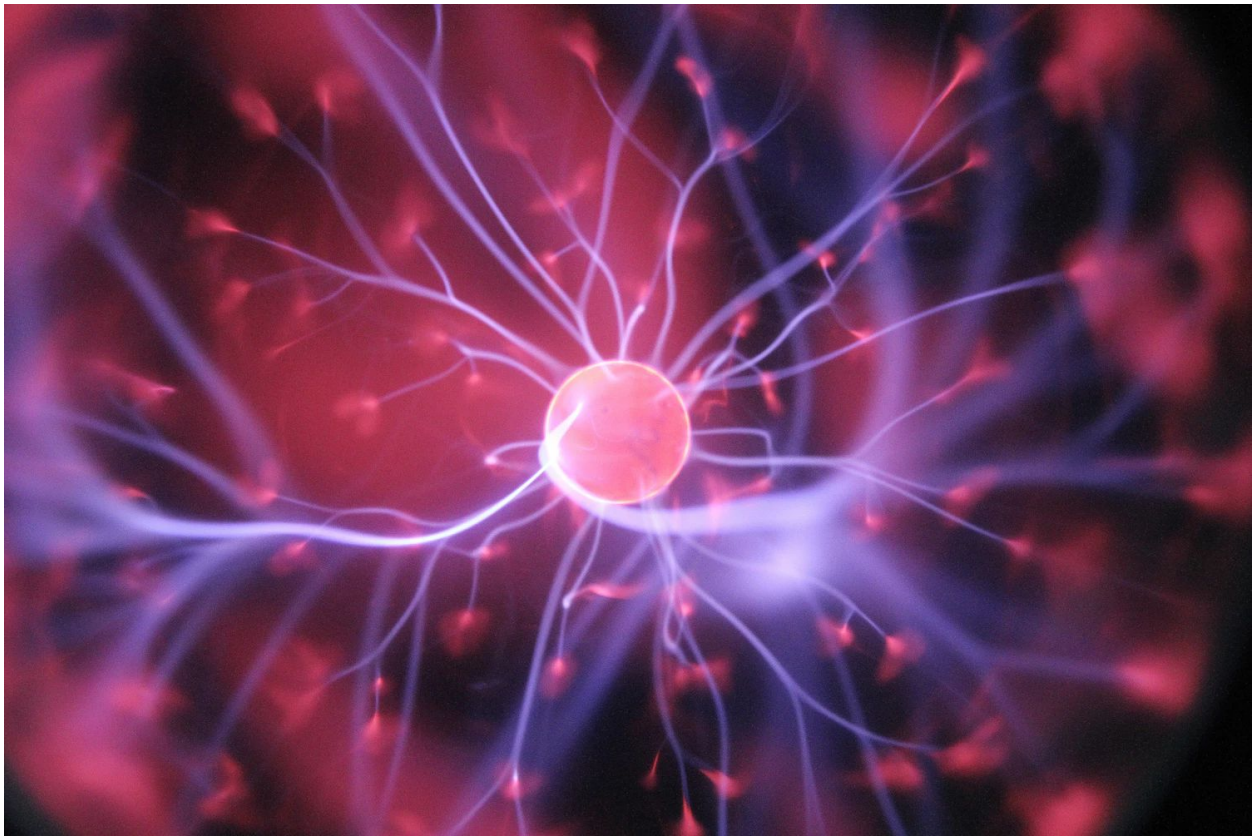
Test Prep Champions'

Science Practice Test

For the GED® Test Science Section



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Questions

Element	**Melting Point, F**	**Boiling Point, F**
Radon	-96	-79
Lithium	357	2448
Magnesium	1202	1994
Sulfur	239	832
Titanium	3038	5949

1. Which of the following statements is supported by the data in the chart?
    A. Radon has a higher melting point than titanium.
    B. Titanium and magnesium are both liquids at room temperature.
    C. Titanium, magnesium, sulfur, and radon are all solids at room temperature.
    D. Radon is a gas at room temperature

2. Carbonic acid molecules are composed of two hydrogen atoms, one carbon atom, and three oxygen atoms. Water is also composed of hydrogen and oxygen, but water has two fewer oxygen atoms than carbonic acid does. Carbon dioxide molecules are composed of one carbon atom and two oxygen atoms. Which of the following statements best describes the chemical reaction represented by the equation below?

$H_2CO_3 \rightarrow H_2O + CO_2$

A. Water is reacting with carbon dioxide to make carbonic acid.
B. Carbonic acid is decomposing into water and carbon dioxide.
C. Carbonic acid is decomposing into pure water
D. Carbon atoms were created during the reaction, resulting in more carbon atoms in the products.

3. The standard heat of combustion is the energy released when a substance undergoes combustion, with excess oxygen at standard conditions. A scientist wanted to determine the performance of various fuels in a power generation turbine. She determined the standard heat of combustion for 5 chemicals. However, she lost the data for chemical 4.

Chemical #	Heat of Combustion (kJ/mol)
1	1167
2	3393
3	3268
4	?
5	1527

The mean value of the heat of combustions is 2088.2. What was the heat of combustion for chemical 4? You may use a calculator.

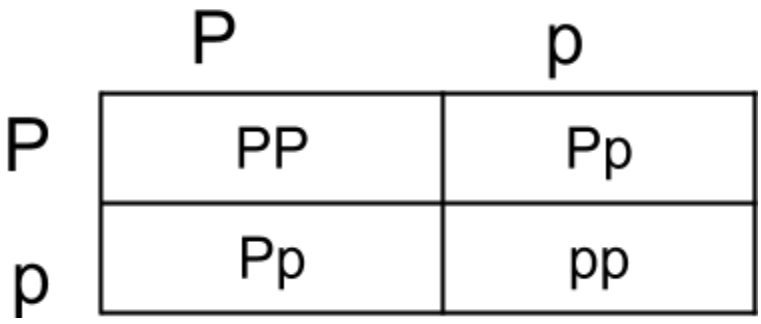
Write your answer in the box below:

Questions 4 through 6 refer to the following paragraph and diagram:

The following Punnett square shows all the possible combinations of alleles for color in offspring pea plants when two-color hybrid pea plants are crossed. A capital *P* represents the dominant color (purple) allele, while a lowercase *p* represents the recessive color (white) allele. A combination of two dominant alleles results in a purple phenotype. A combination of a dominant allele and a recessive

allele also results in a purple phenotype. However, a combination of two recessive alleles results in a white phenotype.

One parent's alleles are seen on the left-hand side of the square, and the other parent's alleles are seen on the top of the square. The genotypes of the offspring are shown in the boxes.



4. If you wanted to only grow purple pea plants in your yard this year, which of the following genotypes would you not want?

A. Pp
B. pP
C. pp
D. PP

5. What is the probability that the offspring will be white? You may use a calculator.

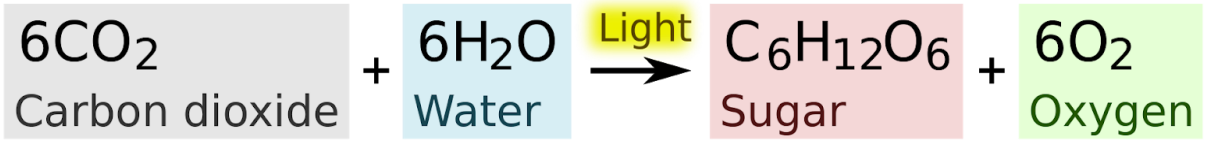
A. .25
B. .50
C. .75
D. 1.00

6. What is the probability that the offspring will be purple? You may use a calculator.

A. .25
B. .50
C. .75

D. 1.00

7. Below is the chemical equation for photosynthesis in plants.



Which of the following is correct based on the information given in the equation?

A. Water and carbon dioxide are produced as a result of photosynthesis.
B. Sugar and oxygen are the reactants in photosynthesis.
C. Carbon dioxide and water are the reactants in photosynthesis.
D. Light energy is not involved in photosynthesis.

8. The data in the table below represents the highest daily temperature in Hawaii measured over a 4 day period.

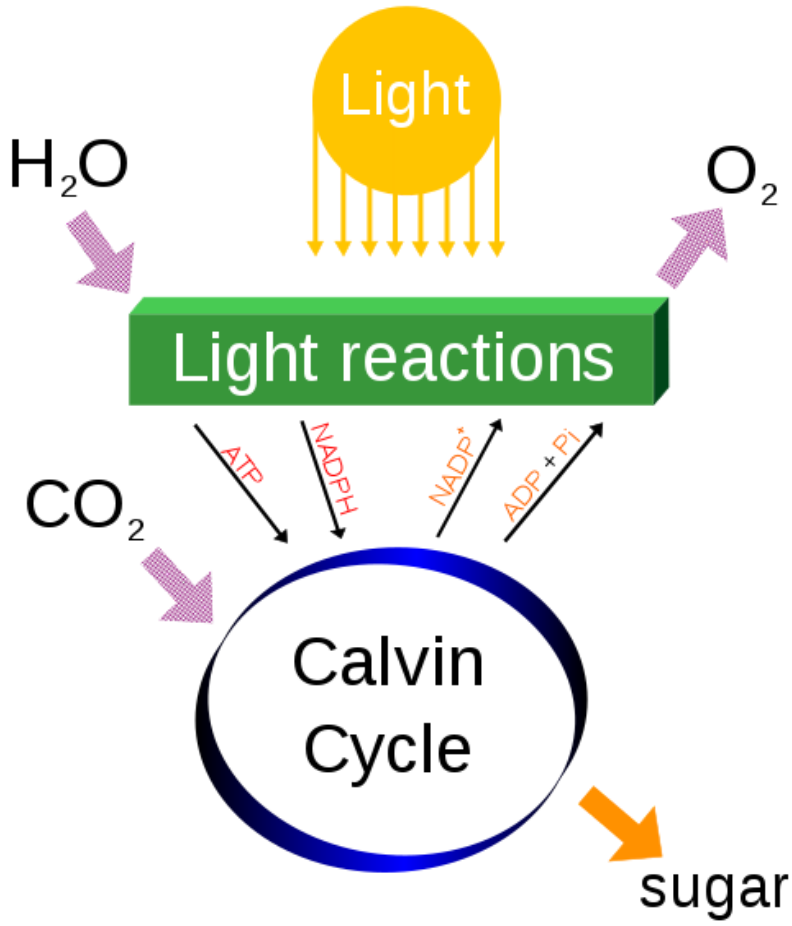
Day	Temperature (degrees F)
1	86
2	87
3	87
4	86

$$T_{(°C)} = (T_{(°F)} - 32) \times 5/9$$

What was the temperature on day 3, measured in degrees Celsius? You may use a calculator.

Write your answer in the box below:

9. Schematic of photosynthesis in plants



9. Which of the following is false based on the information provided in the diagram?

A. Sugar is synthesized from carbon dioxide and water
B. During the Calvin cycle, carbon dioxide is captured and converted into sugar.
C. Light energy is converted into chemical energy that gets stored in sugars.
D. Water is released as a waste product.

10. In the 4th century, scientists believed that the Earth was the center of the Universe and that the Sun rotates around the Earth. This model is known as the geocentric model. The model was supported by the observation that the Sun

appears to revolve around the Earth once a day when a person watches the sky from anywhere on Earth. Additionally, the Earth feels stationary from the perspective of observers on the Earth.

Nicolaus Copernicus developed the heliocentric model in the 16th century. Copernicus proposed that the Sun is the center of the Universe and that the Earth orbits the Sun. Shortly after, Galileo Galilei used the telescope to gather evidence confirming that Copernicus was correct. Today, scientists reject the geocentric model and hold that the heliocentric model is correct.

Which statement most accurately summarizes the passage?

A. In the 4th century, scientists believed that the geocentric model was correct. Scientists today still believe that the geocentric model is correct, and reject the heliocentric model.
B. In the 4th century, scientists believed that the geocentric model was correct. Today, scientists now believe that both the geocentric and heliocentric models are correct.
C. In the 16th century, scientists believed that the geocentric model was correct, but they believed that the heliocentric model was correct in the 4th century. Today, scientists believe that both models are incorrect.
D. In the 4th century, scientists believed that the geocentric model was correct. Today, scientists now know that the geocentric model is false, and accept the heliocentric model.

***More problems are coming out in part 2!!! You'll get an email update as soon as they're ready for a FREE download!

Answers:

1. D

2. B
3. 1086
4. C
5. A
6. C
7. C
8. 30.5556 degrees C
9. D
10. D

Next Steps:

Congratulations on completing this practice test!

Here are your next steps:

1. Make a commitment to review any topic you had trouble with.

2. Let me know what you thought of this practice test! This is totally optional of course, but I'd really appreciate your feedback.

When you go to take the real test, DON'T keep me in suspense! Shoot me a quick email and let me know how you did!

Click here to share your thoughts, or email me at testprepchampions@gmail.com.

GOOD LUCK ON YOUR TEST!