GiftedReady

MAP 9th Grade

PDF Sample Test

Downloadable Practice Test with Answers – Get a Feel for the Exam Topics & Increase Your Chances of Scoring High

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* The correct answers and explanations are located at the end of this PDF.

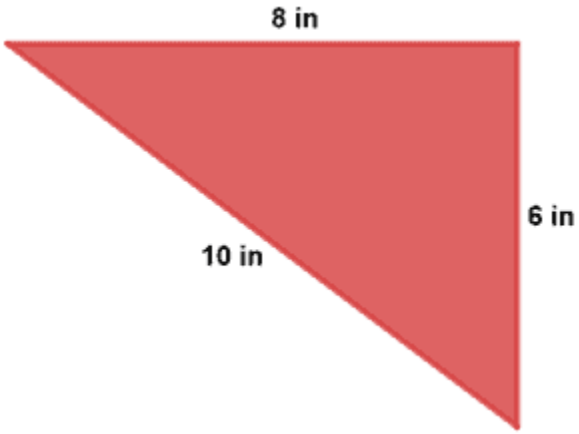
Practice Questions

NWEA MAP 9th Grade Math Practice Questions

Question #1

Geometry

If a right triangle has side lengths measuring 6 in, 8 in, and 10 in, what type of triangle is it?



A. Acute Triangle
B. Obtuse Triangle
C. Isosceles Triangle
D. Right Isosceles Triangle
E. Right Scalene Triangle

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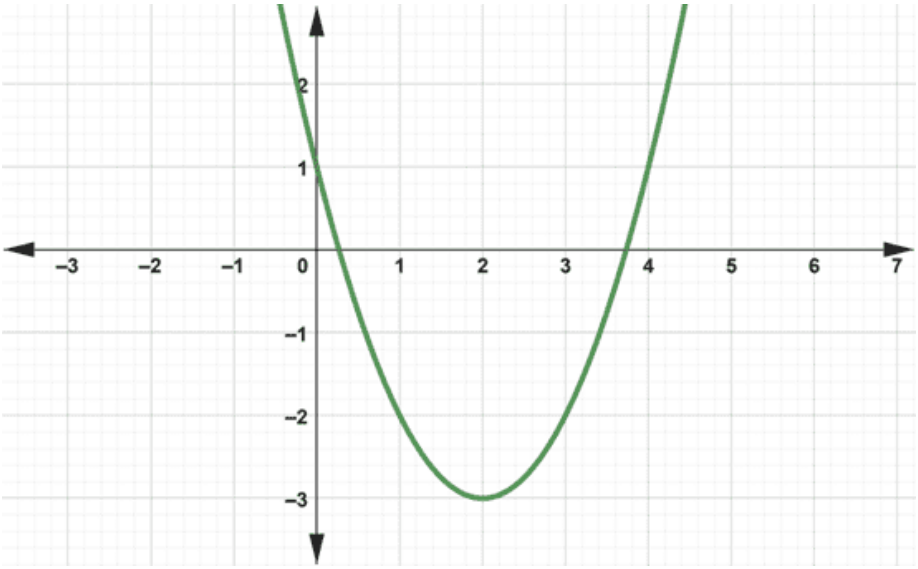
Question #2

Operations and Algebraic Thinking

What is the axis of symmetry of the given parabola?



A. x = 0
B. x = -3
C. x = -2
D. x = 2
E. x = 1

Question #3

Statistics and Probability

Which of the following data sets has more than one mode?

A. 1, 2, 2, 3, 4
B. 2, 3, 4, 5, 6
C. 1, 1, 2, 2, 3
D. 4, 5, 5, 6, 7, 8
E. 0, 1, 1, 4, 5, 8

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Question #4

The Real and Complex Number Systems

Which of the following represents 7!

A. 7×7
B. 7×6×5×4×3×2
C. 7×6×5×4
D. 7×6×5×4
E. 7×6×5×4×3×2×1

NWEA MAP 9th Grade Reading Practice Questions

Question #5

Literary Text

Read the story and then answer the question.

The Gift of Prometheus

Long ago, humans lived in cold, dark caves, fearful of the night and ignorant of the world around them. They struggled to survive, shivering in the winters and eating their food raw because they had no fire. The gods of Olympus looked down on them but offered no help, believing humans should remain weak and dependent.

Prometheus, a wise and kind Titan, pitied the humans. He watched them suffer and decided that they deserved more — warmth, light, and the power to learn. Against Zeus's strict command, Prometheus climbed to Olympus and stole fire from the gods. Hiding it in a hollow reed, he brought the flames down to Earth and gave it to humanity.

With fire, humans began to cook their food, warm their homes, and craft tools. They no longer feared the darkness and began building villages and learning new skills. Fire sparked not only their survival but their curiosity and intelligence, allowing them to grow stronger and wiser.

When Zeus discovered what Prometheus had done, his fury shook the heavens. He ordered his servants to seize Prometheus and chain him to the highest mountain. There, every day, an eagle came to devour his liver, which grew back each night so the torment could continue endlessly.

Yet even in his unbearable suffering, Prometheus did not cry out or ask for mercy. He refused to regret his choice because he believed that helping humanity was worth any punishment.

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Based on the last paragraph, what does Prometheus mean when he refuses to regret his choice?

A. He wishes he had listened to Zeus instead.
B. He believes humans were not worth his sacrifice.
C. He feels proud that he helped humanity despite his suffering.
D. He thinks the gods will forgive him if he admits his mistake.
E. He hopes the eagle will stop tormenting him if he changes his mind.

Question #6

Vocabulary

Read the passage and then answer the question.

Salmon are fascinating creatures because of their unusual life cycle. They are anadromous fish, meaning they hatch in freshwater, migrate to the ocean as they grow, and then return to freshwater to spawn the next generation.

This unique migration pattern allows salmon to take advantage of the rich food supply in the ocean while still relying on the safety of rivers and streams to lay their eggs. Along the way, salmon face many challenges — strong river currents, predators, dams, and even waterfalls — yet they persevere and often return to the very stream where they were born. Their ability to survive in both saltwater and freshwater environments shows how remarkably adaptable they are.

What does the word "anadromous" most likely mean as used in the passage?

A. Fish that stay in saltwater their entire lives
B. Fish that eat both plants and animals
C. Fish that are born in the ocean and die in rivers
D. Fish that migrate from the ocean to freshwater to reproduce
E. Fish that remain in freshwater and never leave

Question #7

Informational Text

Read the following advertisement:

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Which persuasive appeal is being used in this ad?

A. Pathos – appealing to emotions through personal stories
B. Logos – using a celebrity to endorse the product
C. Pathos – using fear to influence behavior
D. Ethos – appealing to credibility through expert recommendation

NWEA MAP 9th Language Usage Practice Questions

Question #8

Understand and Edit for Mechanics

Identify the sentence where ellipses are used incorrectly:

A. “I was thinking… maybe we should ask for help."
B. "He loves to read… mystery, fantasy, history, and more."
C. "She walked into the room… stunned by what she saw."
D. "Wait… did you hear that noise just now?"

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Question #9

Understand, Edit for Grammar, Usage

Which sentence below is a compound-complex sentence?

A. We waited outside the building.
B. I wanted to go to the movies, but my brother stayed home.
C. Because I lost my keys, I had to wait for someone to open the door.
D. After the sun set, the sky turned orange.
E. While she packed her bag, I made dinner, and my sister set the table.

Question #10

Write & Revise Texts for Purpose and Audience

What does this Works Cited entry indicate about the cited work?

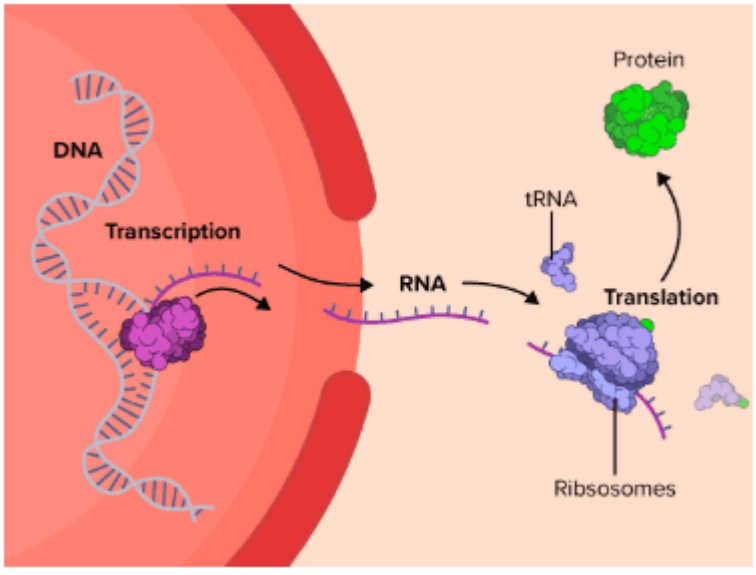
Nguyen, Linda. *Digital Literacy in the 21st Century*. Penguin Books, 2020.

A. It is an article from an academic journal.
B. It is a chapter in an edited book.
C. It is a standalone book written by one author.
D. It is a webpage without a listed author.
E. It is an encyclopedia entry accessed online.

NWEA MAP 9th Grade Science Practice Questions

Question #11

Life Science



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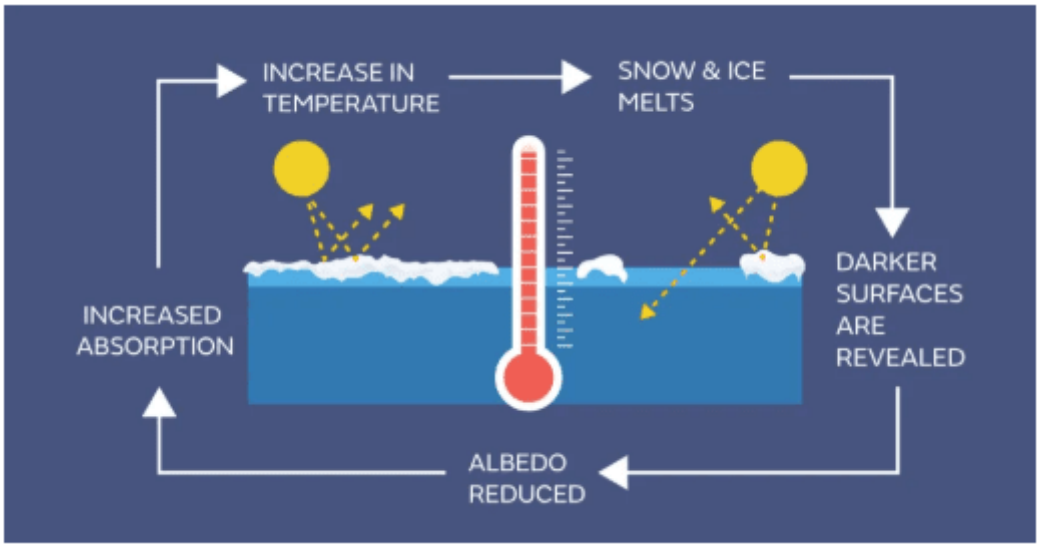
The diagram illustrates the process of protein synthesis. A change in the DNA sequence, known as a mutation, occurs in a gene.

What is the most likely immediate effect of this mutation on the cell's processes?

A. The cell will immediately undergo mitosis.
B. The sequence of amino acids in the resulting protein may be altered.
C. The rate of cellular respiration will increase.
D. The permeability of the cell membrane will change.

Question #12

Earth and Space Science Physical Science



The cycle shown in the diagram, where melting sea ice leads to more absorbed sunlight and thus more melting, is an example of a positive feedback loop. This type of loop _____ the initial change in the system.

A. dampens
B. reverses
C. amplifies
D. neutralizes

Question #13

Earth and Space Science Physical Science

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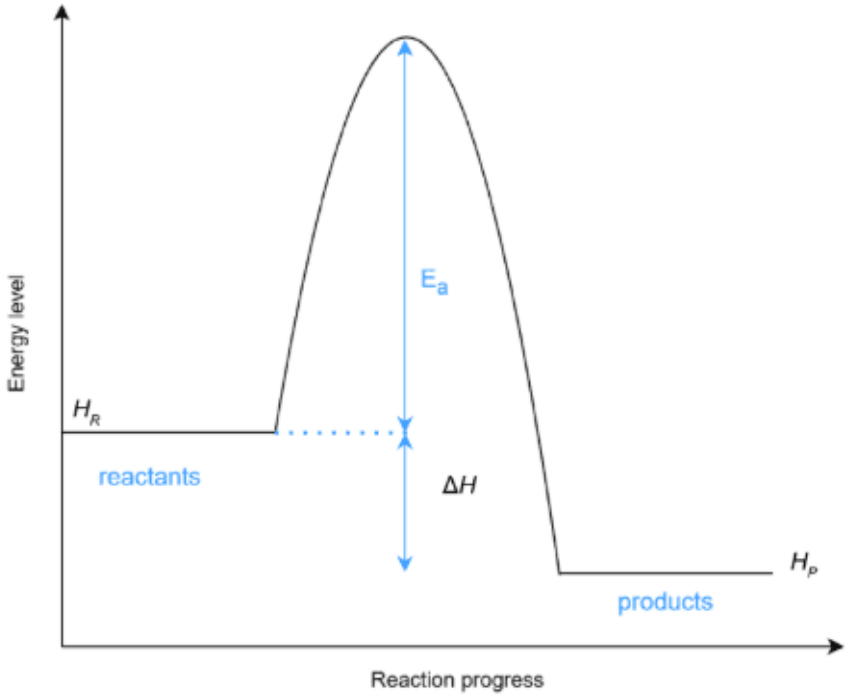

The diagram shows the energy change during a chemical reaction.
Because the products are at a lower potential energy state than the reactants, the reaction is exothermic.

What does this imply about the bond energies?

A. More energy was required to break the bonds in the reactants than was released when forming the bonds in the products.
B. The total bond energy of the products is greater than the total bond energy of the reactants.
C. No bonds were broken or formed during this reaction.
D. More energy was released when forming the bonds in the products than was required to break the bonds in the reactants.

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Correct Answers & Explanations

Question #1

Correct answer: E

Explanation:

If a triangle has side lengths of 6 inches, 8 inches, and 10 inches, we can use the Pythagorean Theorem to determine if it is a right triangle and further classify it.

The Pythagorean Theorem states that for a right triangle with sides a, b, and hypotenuse c:

$a^2 + b^2 + c^2$

In this case, we assume that 10 inches is the hypotenuse (the longest side). Now, check if the Pythagorean Theorem holds:

Since the equation holds true, this is indeed a right triangle.

$a^2 + b^2 = c^2$

$(6)^2 + (8)^2 = (10)^2$

$36 + 64 = 100$

$100 = 100$

Since the equation holds true, this is indeed a right triangle.

We can classify a triangle:

By sides: The triangle has all different side lengths, so it is a scalene triangle.

By angles: Since it satisfies the Pythagorean Theorem, it is a right triangle.

Thus, the triangle is a right scalene triangle.

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Question #2

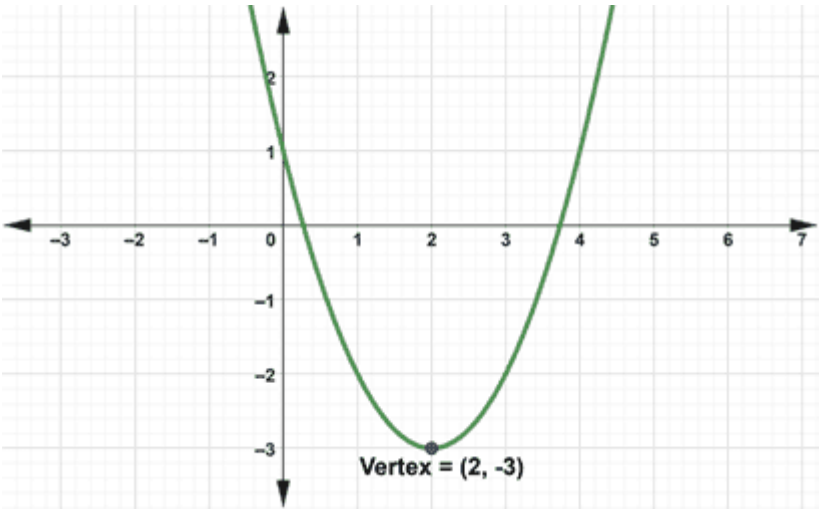
Correct answer: D

Explanation:

The axis of symmetry of a parabola is the vertical line that passes through its vertex or simply the value of x from the vertex. Locate the vertex to determine the axis of symmetry.

The vertex is the point where the parabola reaches its minimum (since the parabola opens upward).

The vertex is at (2, -3)



Since the vertex is at (2, 3), the axis of symmetry will be a vertical line that passes through x = 2.

This is the line that divides the parabola into two symmetrical halves.

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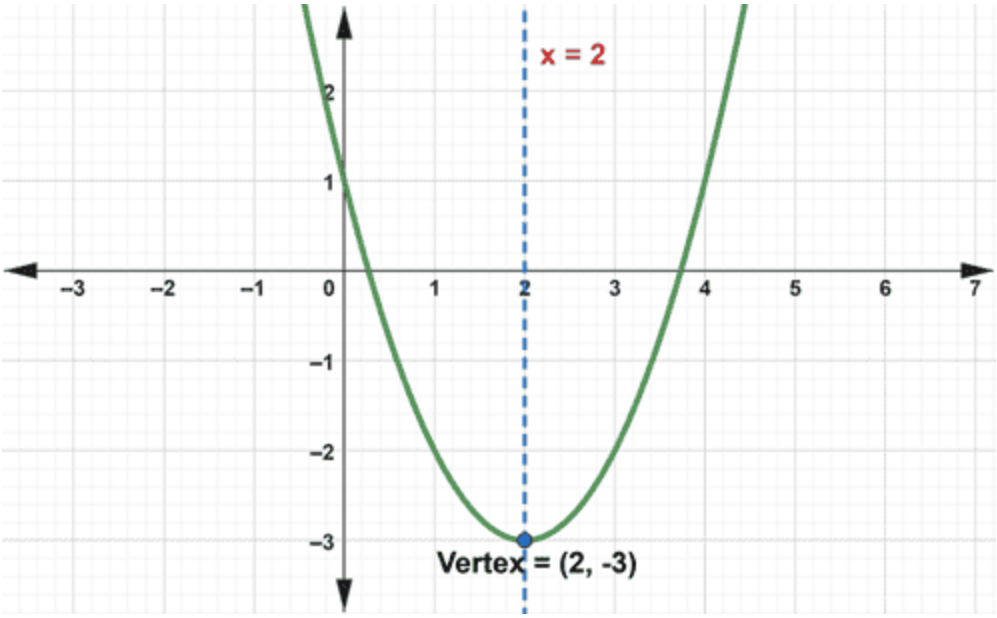

Question #3

Correct answer: C

Explanation:

The mode is the number that appears the most in a list of numbers. Examine each data set to determine which has more than one mode.

Data Set	Elements	Frequency	Mode
Set A: **1, 2, 2, 3, 4**	1 2 3 4	1 2 1 1	2 (one mode)
Set B: **2, 3, 4, 5, 6**	2 3 4 5 6	1 1 1 1 1	no mode (all numbers appear with the same frequency of 1)

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Set C: **1, 1, 2, 2, 3**	1 2 3	2 2 1	1 and 2 (two modes)
Set D: **4, 5, 5, 6, 7, 8**	4 5 6 7 8	1 2 1 1 1	5 (one mode)
Set E: **0, 1, 1, 4, 5, 8**	0 1 4 5 8	1 2 1 1 1	1 (one mode)

The data set with more than one mode is **Option C** (1, 1, 2, 2, 3) because it has two modes, 1 and 2.

Question #4

Correct answer: E

Explanation:

The factorial of a number n ($n!$) is the product of all positive integers from 1 up to n.

The notation 7! represents the factorial of the number 7, which means you multiply all the integers from 1 to 7 together.

7! means:

7! = 7 x 6 x 5 x 4 x 3 x 2 x 1

This is the full product of all integers from 1 to 7.

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Question #5

Correct answer: C. He feels proud that he helped humanity despite his suffering.

Explanation:

The last paragraph clearly states that Prometheus does not regret his choice because he believes helping humans was worth his pain.

Why the other choices are incorrect:

- A: He never wishes he had obeyed Zeus; he stands by his decision.
- B: He clearly believes humans were worth his sacrifice.
- D: There is no suggestion that he expects forgiveness or admits guilt.
- E: He does not believe the punishment will stop if he changes his mind.

Question #6

Correct Answer: D. To rush forward in attack

Explanation:

In this context, the sentence describes a knight in battle. The phrase "lowered his sword" sets the scene for action or combat. So, charge means to rush forward quickly toward someone in an aggressive or attacking way.

Why the other choices are incorrect:

A. To give someone a job or responsibility:
While charge can mean being in charge of something, this sentence doesn't mention leadership or responsibility — it describes physical action.

B. To ask someone to pay a price:
This definition is about money (like at a store), which has nothing to do with a knight in battle.

C. To put electricity into a battery:
This meaning of charge relates to technology or energy, not physical movement or fighting.

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Question #7

Correct answer: D – Ethos

Explanation:

The ad refers to a "recent clinical test" and gives a specific statistic (28% improvement), which builds credibility and trust by suggesting scientific evidence and expert validation. That is an appeal to ethos.

Why the other choices are incorrect:

A. Pathos – appealing to emotions through personal stories

This is incorrect because the ad does not tell a personal story or describe someone's emotional experience. It shows an athlete running, but it does not use a narrative designed to create an emotional connection. The main focus is on performance results, not feelings.

B. Logos – using a celebrity to endorse the product

This is incorrect for two reasons.
First, logos refers to logic and reasoning, not celebrity endorsement.
Second, the ad does not identify the runner as a known celebrity. There is no famous athlete endorsing the drink.

C. Pathos – using fear to influence behavior

This is incorrect because the ad does not try to scare the audience. It does not warn about danger, fatigue, or negative consequences. Instead, it highlights positive outcomes such as "3x the energy" and "zero crash."

Question #8

Correct answer: B. "He loves to read… mystery, fantasy, history, and more."

Explanation:

Ellipses (…) are typically used to:

- Show a pause in speech
- Indicate unfinished thoughts
- Represent omitted words in a quotation

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In sentence **B**, the ellipsis is used between a verb phrase and a list. There is no pause, omission, or unfinished thought that justifies it. A colon (:) or comma would be correct instead:

He loves to read: mystery, fantasy, history, and more.

He loves to read mystery, fantasy, history, and more.

The other sentences use ellipses correctly to indicate a pause or hesitation in speech.

Question #9

Correct Answer: E. While she packed her bag, I made dinner, and my sister set the table.

Explanation:

A compound-complex sentence contains:

- At least two independent clauses (a compound sentence), and
- At least one dependent clause (a complex sentence)

Let's examine the options:

A. One independent clause → simple sentence.
B. Two independent clauses joined by but → compound sentence.
C. One dependent clause + one independent clause → complex sentence.
D. One dependent clause + one independent clause → complex sentence.
E.

- While she packed her bag → dependent clause
- I made dinner → independent clause
- My sister set the table → independent clause

Sentence E contains **two independent clauses** plus **one dependent clause**, which makes it **compound-complex**.

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Question #10

Correct Answer: C. It is a standalone book written by one author.

Explanation:

The citation follows standard MLA format for a book:

Author. *Title of Book*. Publisher, Year.

- Nguyen, Linda. → Single author
- *Digital Literacy in the 21st Century*. → Title of a book (italicized in MLA)
- Penguin Books → Publisher
- 2020 → Year of publication

There is no journal title, editor, website URL, or container listed, which confirms it is a **standalone book written by one author**.

Question #11

Correct Answer: B

Explanation:

The sequence of nucleotide bases in a gene (a segment of DNA) provides the code for the sequence of amino acids in a protein. This code is first transcribed into a messenger RNA (mRNA) molecule.

The ribosome then translates the mRNA code to assemble the protein. Suppose a mutation alters the original DNA sequence.

In that case, the mRNA transcript will also be altered, which can lead to the incorporation of a different amino acid or a premature stop codon during translation, potentially changing the structure and function of the final protein.

Question #12

Correct Answer: amplifies

Explanation

Feedback loops are processes within a system where the output of an action influences that same action. A positive feedback loop amplifies or reinforces the initial change.

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In this case, the initial warming is amplified because the result of the warming (less ice) causes a change (lower albedo) that leads to even more warming.

In contrast, a negative feedback loop would counteract the initial change, stabilizing the system. The ice-albedo feedback is a critical and concerning positive feedback loop in Earth's climate system.

Question #13

Correct Answer: D

Explanation

A chemical reaction involves two main energy processes: energy is absorbed to break the chemical bonds of the reactants, and energy is released when new chemical bonds are formed in the products.

In an exothermic reaction, there is a net release of energy into the surroundings.

This occurs because the bonds formed in the product molecules are stronger (more stable, lower potential energy) than the bonds that were broken in the reactant molecules.

Therefore, the energy released upon product formation exceeds the energy absorbed to break the reactant bonds.

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