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Question: 1

Using the rules for order of operation simplify: $1/8 \div 1/2 + 1/4$

- A. $1/16$
- B. $1/8$
- C. $1/6$
- D. $1/2$

Answer: D

Explanation:

Solution: USE PEDMAS (the same as PEMDAS) for the order of operations:

$$1/8 \div 1/2 + 1/4$$

First do multiplication and division:

Flip the divisor and multiply the fractions:

$$= 1/8 * 2/1 + 1/4$$

$$= 2/8 + 1/4$$

Next do addition:

$$= 1/4 + 1/4$$

$$= 2/4$$

$$= 1/2$$

Question: 2

Using the formula: $C = 5/9 \cdot (F - 32)$. How many degrees C is 95 degrees F?

- A. 35 degrees C
- B. 71 degrees C
- C. 139 degrees C
- D. 203 degrees C

Answer: A

Explanation:

Solution:

$$C = 5/9 \cdot (95 - 32)$$

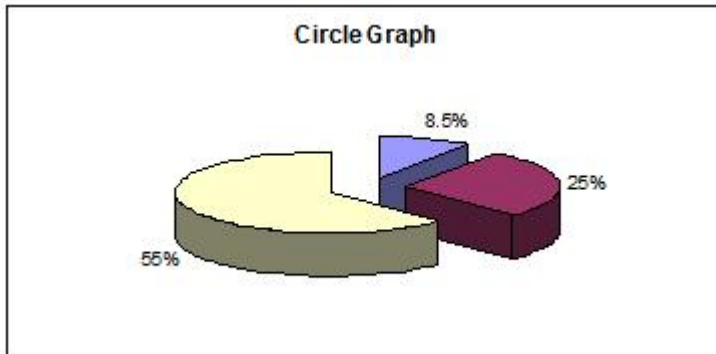
$$C = 5/9 \cdot (63)$$

$$C = 315/9$$

$$C = 35$$

Question: 3

In the circle graph above, in degrees what does the blue piece of the pie represent?



- A. 30
- B. 33
- C. 30.6
- D. 32.75

Answer: C

Explanation:

Solution:

There are 360 degrees in a circle.

$$.085 \cdot 360 = 30.6$$

Question: 4

You find a bedroom set at the local furniture store for \$1200. The red tag says 20% off. What is the sale price of the bedroom set?

- A. 240
- B. 950
- C. 960
- D. 720

Answer: C

Explanation:

To find the discount: $20\% \text{ of } \$1200 = 0.20 \cdot 1200 = \240

To find the sale price: $\$1200 - \$240 = \$960$

Question: 5

(1) Most discussions about global warming center around the impact man has on his environment. (2) Massive emissions of carbon dioxide by industry and transport are the prime culprits evidenced in this regard. (3) While global warming in and of itself is a controversial subject, what is clear is that it is not a phenomenon caused by mankind. (4) If man did not exist on Planet Earth, global warming would exist to a certain extent. (5)

The Earth is kept warm by gases in the atmosphere. (6) Certain gases prohibit heat from escaping out of the atmosphere into space. (7) This is a naturally occurring event with gases such as carbon dioxide and methane, not to mention water vapor, playing a natural role in the process. (8) If our atmosphere contained none of these gases, our planet would be a very cold place. (9) Scientists estimate it would be approximately 30 degrees colder, leading potentially to massive ice formations throughout the world as we know it. (10)

An odd, but useful, example is the desert. (11) During the day it can be hot as Hades, but at night it can grow extremely cold. (12) The temperature variation is due to a lack of temperature regulators. (13) During the day, there is nothing to regulate the heat such as a body of water. (14) When night falls, there is nothing present that stores the heat of the day.

- A. The following concept is addressed in this passage
- B. Industrial production of methane can be modified.
- C. Factors contributing to global warming are manmade.
- D. Carbon dioxide is much more of a hazard to the environment than methane.
- E. The presence of carbon dioxide and methane in the atmosphere prevent the Earth from being uncomfortably cold.

Answer: E

Explanation:

This concept is discussed in the second paragraph.

Question: 6

(1) At some point early in his journey, the hero of our epic fantasy meets with a mentor who has a deeper understanding of the world and of the challenges that our hero will soon face. (2) This mentor is most often a wizard possessing unusual powers and abilities and he imparts his wisdom on our young hero and uses his magic to clear a path for him. (3) However, this is where epic fantasy takes a turn away from the reality that we experience. (4) In our world, there is no all-knowing wizard. (5) Everyone on this big blue globe is just as clueless as everyone else is and we are all just stumbling around in a cave looking at shadows on the wall. (6) This is where epic fantasy fails. (7) There is no all-knowing wizard to guide us through the epic we are all living. (8)

In this passage, the author is using epic fantasy as a metaphor for

- A. a journey
- B. cave exploring
- C. life
- D. science fiction

Answer: C

Explanation:

The author is comparing epic fantasy to the reality we experience (life) in line 13. In lines 13-14, he refers to "our world." In line 15, he writes of "this big blue globe," and in the last sentence, he refers to "the epic we are all living."

Question: 7

Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

Of all the books that I have read, this one is the (A) longest. It is also the (B) most interesting. But it is the (C) less read of any of the books in the collection.

- A. longer
- B. more interesting
- C. least read
- D. No change is necessary.

Answer: C

The sentence in question needs to compare the popularity of a book within a collection using the appropriate form of the comparative adjective. The original sentence uses "less read" to compare the book against multiple other books in the collection. However, when comparing one item to more than two items in English, the correct form is the superlative, not the comparative. The comparative form "less" is typically used when comparing two things or entities. For example, "Book A is less popular than Book B." However, when the comparison involves more than two items, as in this case where the book is being compared to all other books in a collection, the superlative form "least" should be used. Therefore, the correct phrase should be "least read," indicating that among all the books in the collection, this one has been read the least. This correction adheres to the rules of English grammar regarding the use of comparative and superlative forms. Here's the expanded explanation: - The sentence "But it is the less read of any of the books in the collection" is incorrect because it improperly uses the comparative adjective "less" instead of the superlative adjective "least." - The correct form, "least read," is required because the statement compares the book's readership to the readership of all other books in the collection, which implies a comparison within a group larger than two. - Using "least" correctly identifies this book as having the lowest readership in its group, adhering to grammatical standards for comparisons involving more than two entities. Thus, the corrected sentence should read, "But it is the least read of any of the books in the collection." This correction ensures that the sentence is grammatically accurate and clear in its comparison.

Question: 8

Which of the following words is closest in meaning to: Incline

- A. Hate
- B. Abhor
- C. Like

- D. Dislike
- E. Disguise

Answer: C

Explanation:

The word "incline" can be understood in several contexts, primarily implying a tendency or a preference towards something. When comparing the word "incline" with options such as "hate," "like," "abhor," "dislike," and "disguise," the closest in meaning is "like."

To expand, "incline" as a verb often means to feel favorably disposed or to have a preference toward something. It suggests a leaning towards particular feelings, actions, or conditions. The phrase "to be inclined to" typically precedes an action or a preference that one is drawn to more naturally or willingly. For example, if someone says, "I am inclined to read mystery novels," it means they have a preference or a liking for mystery novels.

In contrast, words like "hate," "abhor," and "dislike" denote strong negative feelings towards something, which is the opposite of what "incline" suggests in a positive context. "Disguise" refers to concealing something's true form or nature, which is unrelated to the concept of personal preference or tendency implied by "incline."

Hence, the term "like" aligns most closely with "incline" since both suggest a fondness or a positive attitude towards something. For instance, someone inclined to choose chocolate cake likely does so because they like it - they have a preference for it over other flavors. This illustrates how "incline" and "like" are interconnected in terms of meaning, making "like" the correct answer in identifying a word closest in meaning to "incline."

Question: 9

Which of the following words is the closest in meaning to: Marine

- A. Oceanic
- B. Lake
- C. Land
- D. Dry
- E. Desert

Answer: A

Explanation:

The term "marine" is closely related to oceans and seas, specifically referring to the life forms and environments found in these bodies of water. The word "marine" can be used to describe organisms that inhabit the ocean (e.g., marine biology), vehicles designed for ocean travel (e.g., marine vessels), and activities associated with the sea (e.g., marine exploration).

Among the options provided ("Lake," "Land," "Dry," "Desert"), the word "Oceanic" is unequivocally the closest in meaning to "marine." Both terms are intrinsically linked to the ocean and its extensive ecological and geographical features. "Oceanic" pertains to anything related to the ocean, covering aspects from marine life to the physical and chemical properties of the oceanic environment.

"Oceanic" can describe phenomena that occur or exist in the ocean, or pertain to the vast open waters that cover a significant portion of the Earth's surface. This includes oceanic currents, oceanic trenches, and the overall oceanic climate. It also encapsulates cultures and nations that are closely tied to the ocean, often relying on it for food, transportation, and economic activities.

By contrast, the other options diverge significantly from "marine" in meaning. "Lake" refers to a body of freshwater surrounded by land and is generally much smaller than an ocean. "Land" pertains to the Earth's solid surface not covered by water, while "Dry" and "Desert" denote places lacking moisture, the latter specifically being a barren area of landscape with little rainfall and sparse living conditions. Hence, "Oceanic" is the correct choice as it aligns with the marine context, encompassing both the biological aspects and the broader environmental and cultural associations with the sea. This connection makes "Oceanic" synonymous with "marine" in numerous contexts related to oceanography and marine studies.

Question: 10

In which of the following sentences is the modifier placed correctly?

- A. After going to the market, the pantry was full.
- B. To please the teacher, the blackboard was erased.
- C. While cooking the dinner, the guests were entertained by the guitarist.
- D. Brad was excited after he met the famous baseball player.

Answer: D

Explanation:

In this question, the correct placement of modifiers within sentences is being assessed. Modifiers are words, phrases, or clauses that provide additional information about other elements in a sentence. If not placed correctly, modifiers can create confusion or mislead about what is being modified. Here, we evaluate which sentence among the provided options correctly uses a modifier. Let's analyze each sentence: 1. "After going to the market, the pantry was full." - This sentence features a misplaced modifier. The phrase "After going to the market" is intended to describe an action taken by a person, but it incorrectly modifies "the pantry." This creates the illogical impression that it was the pantry that went to the market. The intended meaning is likely that someone went to the market and then filled the pantry. 2. "To please the teacher, the blackboard was erased." - Here, the modifier "To please the teacher" is intended to describe the reason someone erased the blackboard. However, the sentence is structured in a way that makes it seem as though the blackboard was trying to please the teacher, which is not possible. This is another example of a misplaced modifier. 3. "While cooking the dinner, the guests were entertained by the guitarist." - In this sentence, "While cooking the dinner" mistakenly modifies "the guests," suggesting that the guests were the ones cooking the dinner. This is likely not the intended meaning; the sentence probably meant to convey that the dinner was being cooked while the guests were being entertained by the guitarist. 4. "Brad was excited after he met the famous baseball player." - This sentence correctly places the modifier "after he met the famous baseball player." The modifier clearly and accurately describes why Brad was excited, directly linking his excitement to the event of meeting the baseball player. Among the options provided, the sentence "Brad was excited after he met the famous baseball player" is the only one where the modifier is used correctly. The other sentences contain modifiers that either create ambiguity or logically incorrect implications. This demonstrates the importance of careful modifier placement to ensure clarity and precision in communication.

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