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QUESTION 1

A certain truck averages 10 miles per gallon when driven in the city and 25 miles per gallon when driven on the highway. According to these rates, which of the following is closest to the number of miles per gallon that the truck averages when it is driven 20 miles in the city and 30 miles on the highway?

A. 16

B. 18

C. 20

D. 23

E. 25

Correct Answer: A

QUESTION 2

Let each of A, B, C, and D be a nonempty set such that $A \cup B = C \cup D$. If each of $A \cap B$ and $C \cap D$ is nonempty, does $A \cap B$ have any elements in common with $C \cap D$?

Each element in A belongs to C.

Each element in D belongs to B.

A. Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

B. Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

D. EACH statement ALONE is sufficient.

E. Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: C

QUESTION 3

Although a village in a drouqht-stncken area may at first be resistant to using new agricultural techniques, if the village leaders are consulted beforehand and the benefits of the techniques are demonstrated clearly, the agricultural ministry can often effect a real and positive change in agricultural productivity and thus in economic security.

A. a village in a drought-stricken area may at first be resistant to using new agricultural techniques, if the village leaders are consulted beforehand and the benefits of the techniques are demonstrated clearly,

B. a village may be resistant to first using new agricultural techniques in a drought-stricken area, if they consult beforehand with village leaders and clearly demonstrates the techniques\\' benefits,

C. at first in a drought-stricken area a village may resist the use of new agricultural techniques, if their leaders are consulted beforehand and their benefits are clearly demonstrated,

D. at first a village in a drought-stricken area may be resistant to new agricultural techniques, if the leaders are consulted beforehand and one clearly demonstrates their benefits,

E. a village in a drought-stricken area may first resist using new agricultural techniques if village leaders are consulted beforehand and the benefits of the techniques are clearly demonstrated,

Correct Answer: A

QUESTION 4

The belief of physicists Enrico Fermi and Glenn Seaborg, articulated In 1946, that nuclear physics would ultimately prove more useful a tool in medical diagnosis treatment than as a source of energy was not widely shared by their colleagues.

A. more useful a tool in medical diagnosis and treatment than as

B. more useful as a tool in medical diagnosis and treatment than

C. more useful as a tool for medical diagnosis and treatment than as

D. a more useful tool in medical diagnosis and treatment than

E. a more useful tool in medical diagnosis and treatment than as

Correct Answer: C

QUESTION 5

In her first major cinematic role, a role she was nominated for an Ariel Award for. Salma Hayek played Alma, one of three protagonists in the highly acclaimed Mexican film ElCallejdn de bs Milagros.

A. a role she was nominated for an Ariel Award for,

B. which she was nominated for an Ariel Award,

C. for which she received an Ariel Award nomination,

D. a role nominated for Hayek to receive an Ariel Award,

E. with Hayek receiving an Ariel Award nomination,

Correct Answer: C

QUESTION 6

Does the positive integer n have at least four positive prime factors?

(1) $\frac{n}{15}$ is an integer.

(2) $\frac{n}{14}$ is an integer.

A. Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

B. Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

D. EACH statement ALONE is sufficient.

E. Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: C

QUESTION 7

Incumbents in the United States House of Representatives who spend large amounts of money on a reelection campaign usually lose, whereas those who spend relatively little money usually win. Thus, heavy campaign spending is detrimental to an incumbent\\'s reelection campaign.

Which of the following, if true, most seriously weakens the argument above?

A. In the most recent elections fa the House of Representatives, roughty hatf of the winners spent large amounts of money on their campaigns.

B. The incumbents who spend large amounts of money are the ones who know that they are politically vulnerable.

C. Incumbents raise most of their campaign money through contributions by large corporations.

D. Because their names are already known to the public, incumbents do not need to spend as much money to finance their campaigns as new candidates do.

E. Most incumbents who run for reelection win their reelection campaigns.

Correct Answer: B

QUESTION 8

Art expert: If a painting is from the Hudson River School of the mid-nineteenth century United States, it will display a romantic reverence for landscape, portraying pastoral scenes in which humans and nature coexist peacefully. The painting that was recently discovered in the attic of the old town hall dates from the 1850s and portrays a pastoral landscape in which two couples are having a peaceful picnic. So the painting must be from the Hudson River School.

The critic\\'s argument is flawed in that it

A. mistakenly treats a class of things with certain properties as the only kind of things with those properties

B. states a generalization based on an inadequate piece of evidence

C. fails to recognize that a particular term can have more than one meaning

D. depends on a premise that the argument suggests is false

E. improperly assumes that because something has a particular property, the parts of that thing will also have the property

Correct Answer: A

QUESTION 9

Berlandia\\'s senate recently introduced two bills to address the problem of overburdened landfills: one would require that at least 40 percent by weight of the plastics sold in that country be biodegradable, the other that at least 80 percent by weight of plastics sold there be recycled into useful products. One legislator, however, has claimed that biodegradable plastics cannot be recycled into useful products, even if the biodegradables are mixed with other plastics.

The legislator\\'s claim, if true, most strongly supports which of the following?

A. If both bills are passed, violations of at least one of the new laws will undoubtedly occur.

B. If both bills are passed, the amount of nonbiodegradable plastics that reach Berlandia\\'s landfills will soon increase over present levels.

C. The cost of products made from recycled plastics will increase significantly unless neither bill Is passed.

D. If a plastic product contains a significant amount of recycled material, that product will probably not contain biodegradable materials as well.

E. Eventually, only plastics that are biodegradable will be sold in Berlandia, whether or not both bills are passed.

Correct Answer: A

QUESTION 10

If $x^2 = x + 1$, which of the following is equal to x^3 ?

A. x+2

B. x+3

C. 2x

D. 2x+1

E. 4x+2

Correct Answer: D

QUESTION 11

If $x + y > 2$, is $y > 0$?

(1) $x > 2$

(2) $x - y < 2$

A. Statement (1) ALONE is sufficient, but statement (2) atone is not sufficient.

B. Statement (2) ALONE is sufficient, but statement (1) atone is not sufficient.

C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

D. EACH statement ALONE is sufficient

E. Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: C

QUESTION 12

If k is a constant, is 3 a root of $x^2 + kx + 3 = 0$?

(1) k is a root of $x^2 - 16 = 0$.

(2) 1 is a root of $x^2 + kx + 3 = 0$.

A. Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

B. Statement (2) ALONE is sufficient, but statement (1) alone Is not sufficient.

C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

D. EACH statement ALONE is sufficient.

E. Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: B

QUESTION 13

If k is a positive integer and 5 k is a factor of the product of the odd integers from 99 to 199, inclusive, what is the greatest possible value of k?

A. 10

B. 13

C. 15

D. 20

E. 23

Correct Answer: B

QUESTION 14

Under laboratory conditions, fruit flies can learn to respond to odors that elicit no response from them in nature. Mutant fruit flies that cannot produce a certain enzyme are, however, incapable of such learning. These mutant flies respond to other odors just as ordinary fruit flies do. Thus it is unlikely that the enzyme\\'s absence impairs the fruit flies\\' perception of odors, since presumably fruit flies would not have an enzyme that was needed only for the perception of odors that fruit flies do not respond to in nature. Given that many researchers believe that this enzyme is somehow involved in the process of forming memories, what the enzyme\\'s absence probably impairs is the fruit flies\\' ability to learn.

In the argument given, the two boldfaced portions play which of the following roles?

A. The first is a conclusion drawn about one possible explanation of the phenomenon at issue; the second presents an explicit assumption that is introduced to support that conclusion.

B. The first is a hypothesis that the argument seeks to establish; the second is an alternative hypothesis, which the argument provides grounds for rejecting.

C. The first is a hypothesis that the argument seeks to establish; the second presents an explicit assumption that has been used in arguing for the position that the argument opposes.

D. The first provides evidence in support of the main conclusion of the argument; the second is a claim that has been advanced in order to undermine the force of that evidence.

E. The first is an objection that has been raised against the position adopted in the argument; the second presents an explicit assumption that is introduced in order to meet that objection.

Correct Answer: E

QUESTION 15

Under United States law, a distinctive package design can be legally protected against copying. Lorex shampoo, a leading brand, is packaged in a triangular-shaped bottle with a gold label. A major pharmacy chain has introduced a similar, less expensive shampoo in similarly shaped bottles with plain black-and- white labels carrying the chain\\'s name. Though the triangular shape is distinctive, the manufacturer of Lorex has not legally challenged its use for the chain\\'s shampoo.

Which of the following, if true, provides the strongest reason for the manufacturer of Lorex not to challenge the chain\\'s use of the triangular package design?

A. The manufacturer of Lorex depends for sales on the willingness of the chain to stock Lorex and other of the manufacturer\\'s products.

B. The black-and-white labeling of the chain\\'s shampoo indicates to the consumer that irrelevant expense has been spared in order to bring the product to the consumer at lower cost.

C. The cost of manufacturing the chain\\\'s shampoo is substantially lower than the cost of manufacturing Lorex.

D. Lawsuits brought for the purpose of protecting distinctive package designs are generally successful.

E. The manufacturer of Lorex also manufactures other shampoos, and those shampoos are not sold in triangular-shaped bottles.

Correct Answer: E

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