Claim: Major policy decisions should always be left to politicians and other government experts.

Reason: Politicians and other government experts are more

informed and thus have better judgment and perspective than do members of the general public.

Write a response in which you discuss the extent to which you agree or disagree with the claim and the reason on which that claim is based.

Section 2 of 5 | Question 1 of 12

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0

00:18:00 ⊝ Hide Time

Next

Select one entry for the blank. Fill the blank in the way that best completes the text.

We often regard natural phenomena like rainfall as mysterious and unpredictable; although for short time spans and particular places they appear so, in fact on a truly global scale nature has been a model of \_\_\_\_\_\_.

reliability	
diversity	
complexity	
plasticity	
discontinuity	
	diversity complexity plasticity

#### Section 2 of 5 | Question 2 of 12

00:17:15 ⊝ Hide Time

For each blank select one entry from the corresponding column of choices. Fill all blanks in the way that best completes the text.

Seemingly (i) her reputation for tediousness, the university president (ii) a casual, chatty style in the speech she delivered.

Blank (i)

Blank (ii)

intrigued by	
embarrassed by	
resigned to	

provoked affected expected Section 2 of 5 | Question 3 of 12

00:15:59 ⊝ Hide Time

For each blank select one entry from the corresponding column of choices. Fill all blanks in the way that best completes the text.

Whatever the level of the museum's past (i) \_\_\_\_\_ American art, it pales beside its current (ii) \_\_\_\_\_. Since opening its renovated and expanded building, the museum has relegated American paintings to hard-to-find corners of the museum. It is as if American art is (iii) \_\_\_\_\_ the overwhelmingly European narrative that dominates the permanent collection galleries.

Blank (i)

Blank (ii)

Blank (iii)

advocacy of	
enthusiasm for	
neglect of	

craze	
disdain	
support	

fundamental to
excluded from
privileged over

# Section 2 of 5 | Question 4 of 12

00:14:16 ⊝ Hide Time

Questions 4 and 5 are based on this passage.

In California's Mojave Desert, archaeologists found two fluted projectile points, one on the surface, one buried, both similar to classic Clovis stone points from the American Plains. They obtained a radiocarbon date of 8,470 years from material associated with the buried point, a date far more recent than the known time range for Clovis points. There are three ways of accounting for this date. First, it is possible that fluted points were in use in this region around 8,470 years ago. Second, this point may somehow have been deposited at the California site long after its creation. Third, the 8,470-year date may be wrong; a second date from the same context providing an age of 4,360 years was rejected by archaeologists as incorrect.

According to the passage, which of the following statements is true about "a radiocarbon date of 8,470 years"?

- It is unexpected for material associated with classic Clovis points.
- It implies that the buried point and the point on the surface are from the same time period.
- It implies that projectile point technology developed much later than previously thought.
- It suggests that the region around the California site was populated much later than previously thought.
- It will likely prove to be inaccurate.

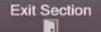
#### Section 2 of 5 | Question 5 of 12

#### Questions 4 and 5 are based on this passage.

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If the second explanation is the only one of the three that is correct, then it can be inferred that

- the material associated with the buried point and the point itself are not from the same time period
- the buried point and the point found on the surface are not from the same time period
- the material associated with the buried point has been misdated
- at least some classic Clovis points unearthed earlier have been misdated
- archaeologists' understanding of what constitutes a classic Clovis point may need to be revised





Review

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#### Section 2 of 5 | Question 6 of 12

00:12:11 ⊝ Hide Time

Select the  $\underline{two}$  answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole  $\underline{and}$  produce completed sentences that are alike in meaning.

The news that compatibility issues with the electronic device had been resolved was received with \_\_\_\_\_ by analysts and consumers, since they assumed that newer technologies would soon make the device obsolete.

indifference

apathy

eagerness

consternation

condemnation

enthusiasm

00:10:50 ⊝ Hide Time

#### Section 2 of 5 | Question 7 of 12

Review

Select the two answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole and produce completed sentences that are alike in meaning.

Though the art of writing was well established in Egypt and Mesopotamia long before the Shang period, the Chinese writing that appeared then seems to have been an entirely \_\_\_\_\_\_ development.

- unique
- banal
- homegrown
- practical
- routine
- indigenous



Section 2 of 5 | Question 8 of 12

00:09:23 ⊝ Hide Time

Select the  $\underline{two}$  answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole  $\underline{and}$  produce completed sentences that are alike in meaning.

In a time when so much new concert music failed to speak to listeners, the composer's symphonies expressed with \_\_\_\_\_ wit and scorching emotional power the tragic history he lived through.

- torpid
- insouciant
- patronizing
- caustic
- phlegmatic
- stinging

00:08:15 ⊝ Hide Time

### Section 2 of 5 | Question 9 of 12



Select the two answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole and produce completed sentences that are alike in meaning.

Because it has usually been impossible to eradicate exotic species once they have become established, it is to minimize introductions of species that have substantial probabilities of unwanted impacts.

prudent

customary

provident

superfluous

essential

pointless

# Section 2 of 5 | Question 10 of 12

00:07:05 ⊝ Hide Time

# Questions 10 to 12 are based on this passage.

As it was published in 1935, *Mules and Men*, Zora Neale Hurston's landmark collection of folktales, may not have been the book that its author first had in mind. In this anthropological study, Hurston describes in detail the people who tell the stories, often even inserting herself into the storytelling scene. Evidently, however, Hurston had prepared another version, a manuscript that was recently discovered and published after having been forgotten since 1929. This version differs from *Mules and Men* in that it simply records stories, with no descriptive or interpretive information.

While we cannot know for certain why Hurston's original manuscript went unpublished during her lifetime, it may have been because publishers wanted something more than a transcription of tales. Contemporary novelist and critic John Edgar Wideman has described Black literature as the history of a writing that sought to "escape its frame," in other words, as the effort of Black writers to present the stories of Black people without having to have a mediating voice to explain the stories to a non-Black audience. In this, Hurston may have been ahead of her time.

The author of the passage suggests that Wideman's comment is related to Hurston's work in which of the following ways?

- His comment introduces uncertainty into the dating of the two versions of her folktale collection.
- His comment was the inspiration for the method she used to compile her folktale collection.
- His comment is derived from his evaluation of the changes she made in transforming the first version into the second.
- His comment is distant enough in time from her work so as not to apply in precise terms to her work.
- His comment provides a general basis for explaining what might have been her original intent for the folktale collection.

00:04:49 ⊝ Hide Time

Next

Section 2 of 5 | Question 11 of 12

### Questions 10 to 12 are based on this passage.

As it was published in 1935, *Mules and Men*, Zora Neale Hurston's landmark collection of folktales, may not have been the book that its author first had in mind. In this anthropological study, Hurston describes in detail the people who tell the stories, often even inserting herself into the storytelling scene. Evidently, however, Hurston had prepared another version, a manuscript that was recently discovered and published after having been forgotten since 1929. This version differs from *Mules and Men* in that it simply records stories, with no descriptive or interpretive information.

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Select the sentence that suggests a possible reason why Hurston wrote the version of *Mules and Men* that was published in 1935.

Select a sentence in the passage.

00:03:21 ⊝ Hide Time

# Section 2 of 5 | Question 12 of 12

As it was published in 1935. M

As it was published in 1935, *Mules and Men*, Zora Neale Hurston's landmark collection of folktales, may not have been the book that its author first had in mind. In this anthropological study, Hurston describes in detail the people who tell the stories, often even inserting herself into the storytelling scene. Evidently, however, Hurston had prepared another version, a manuscript that was recently discovered and published after having been forgotten since 1929. This version differs from *Mules and Men* in that it simply records stories, with no descriptive or interpretive information.

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The passage provides information about all of the following EXCEPT

how it was established which version of the manuscript was written first

when Mules and Men was originally published

what the differences were between Mules and Men and the later-published version

how a mediating voice was provided in Mules and Men

what Wideman meant by "escape its frame"











Section 3 of 5 | Question 1 of 12

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y > 0

## Quantity A

The average (arithmetic mean) of y, 2y, and 3y

# Quantity B

The median of y, 2y, and 3y

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.









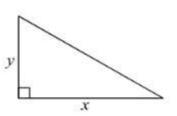




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Section 3 of 5 | Question 2 of 12

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$$x + y$$

Quantity B

$$\sqrt{x^2+y^2}$$

- Quantity A is greater.
- O Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.







Quantity B

0







Next

Section 3 of 5 | Question 3 of 12

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x < y

Quantity A

2y - x

- Quantity A is greater.
- O Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

00:19:46 ⊝ Hide Time

Next

Section 3 of 5 | Question 4 of 12

1 acre = 4,840 square yards 1 yard = 3 feet

# Quantity A

40,000

Quantity B

The number of square feet in 1 acre

Quantity A is greater.

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.













00:18:02 ⊝ Hide Time



Section 3 of 5 | Question 5 of 12

A certain manufacturer determines that the profit P, in dollars, generated by producing x units of a product is given by the formula P = 0.1x(100 - x). Which of the following values of x will result in a profit that is positive?

Indicate all such values.

- 60
- 75
- 90
- 105

Select one or more answer choices.



Calc





Help 0

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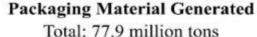
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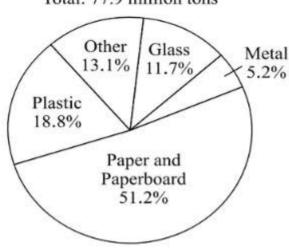
Section 3 of 5 | Question 6 of 12

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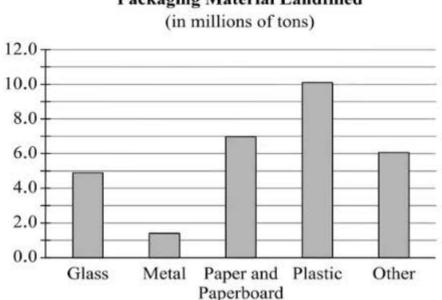
Questions 6 to 8 are based on the following data.

# Types of Packaging Material in Municipal Solid Waste in the United States in 2015

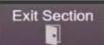




# **Packaging Material Landfilled**



For the packaging material landfilled, the combined number of tons for the two types with the greatest numbers of tons landfilled accounted for approximately what fraction of the total number of tons landfilled for the five types?



Calc

Mark

Review

Help



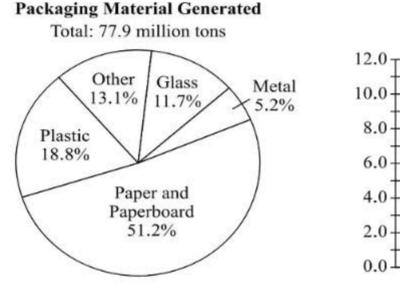
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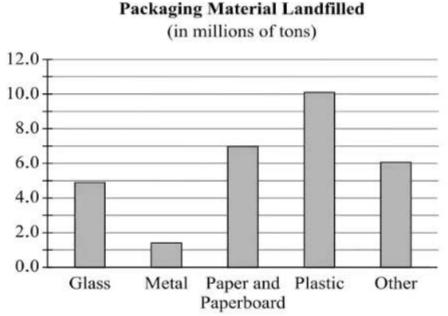
Section 3 of 5 | Question 7 of 12

00:14:38 ⊝ Hide Time

Questions 6 to 8 are based on the following data.

# Types of Packaging Material in Municipal Solid Waste in the United States in 2015





The ratio of the number of tons of paper and paperboard landfilled to the number of tons of paper and paperboard generated is closest to which of the following?

O 1 to 2

O 1 to 5

O 1 to 6

1 to 7

1 to 10





Mark

Review

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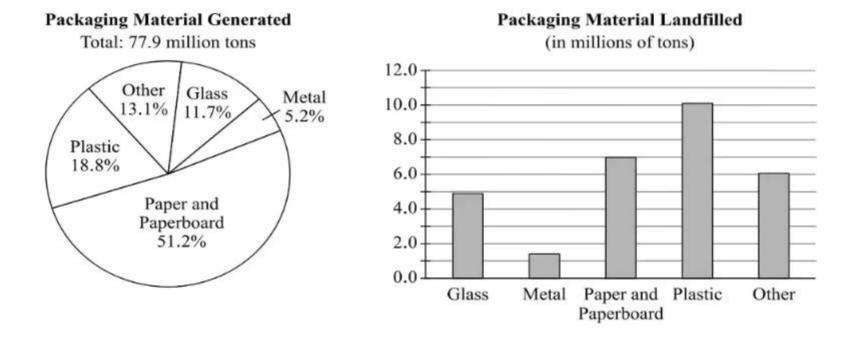
Next

Section 3 of 5 | Question 8 of 12

00:12:25 ⊝ Hide Tim

Questions 6 to 8 are based on the following data.

## Types of Packaging Material in Municipal Solid Waste in the United States in 2015



In the circle graph shown, the measure of the central angle of the sector representing plastic is how much greater than the measure of the central angle of the sector representing metal?

Give your answer to the nearest whole degree.

degrees

Next →

Section 3 of 5 | Question 9 of 12

00:11:26 ⊝ Hide Time

How many integers between 37 and 621 are squares of even integers?

- O Nine
- O Ten
- O Fifteen
- Seventeen
- Eighteen



Next

-

Section 3 of 5 | Question 10 of 12

00:09:49 ⊝ Hide Time

In the rectangular coordinate plane, the set of all points (x, y) such that -3 < x < 3 and -4 < y < 4 is

- a circular region
- two perpendicular line segments
- two congruent line segments
- a square region
- a nonsquare rectangular region

00:08:04 ⊝ Hide Time

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Section 3 of 5 | Question 11 of 12

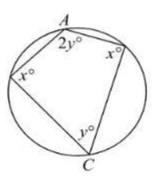
The light from a certain light source shines on a flat floor so that a circular region of the floor is lighted and the rest of the floor is dark. The floor is in the shape of a square with each side of length 15 feet, and the diameter of the lighted circular region is 8 feet. Which of the following is closest to the ratio of the area of the floor that is lighted to the area of the floor that is dark?

- 2 to 9
- 2 to 7
- O 2 to 5
- 8 to 15
- 9 to 10

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Section 3 of 5 | Question 12 of 12

00:05:00 ⊝ Hide Time



In the figure above, a quadrilateral is inscribed in a circle. Line segment AC (not shown) is a diameter of the circle. What is the value of x+y?

$$x + y =$$

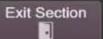
00:22:46 ⊝ Hide Time

Section 4 of 5 | Question 1 of 15

Select one entry for the blank. Fill the blank in the way that best completes the text.

It is curious that the same industrialists who are increasingly \_\_\_\_\_ about the economy's prospects are no cheerier about their own firm's outlook than they were a year ago.

morose
laconic
sanguine
loquacious
knowledgeable









Next

Section 4 of 5 | Question 2 of 15

00:21:53 ⊝ Hide Time

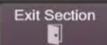
For each blank select one entry from the corresponding column of choices. Fill all blanks in the way that best completes the text.

Reports of the destruction of island vegetation by human-introduced herbivores, such as goats and rabbits, are so (i)\_\_\_\_\_\_ that there can be no reason to (ii)\_\_\_\_\_.

Blank (i)

Blank (ii)

dire	trace their provenance
prejudicial	doubt their veracity
consistent	dispute their ubiquity







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Section 4 of 5 | Question 3 of 15

00:20:49 ⊝ Hide Time

For each blank select one entry from the corresponding column of choices. Fill all blanks in the way that best completes the text.

The philosopher held that art must perform a paradoxical task, simultaneously extricating itself from the (i)\_\_\_\_\_even while (ii)\_\_\_\_\_ the realities of ordinary experience.

Blank (i)

Blank (ii)

impersonal	largely transcending
prescriptive	casually dismissing
quotidian	forthrightly addressing

Select one entry from each column.

#### Section 4 of 5 | Question 4 of 15

00:20:14 ⊝ Hide Time

For each blank select one entry from the corresponding column of choices. Fill all blanks in the way that best completes the text.

Lebrecht recounts many entertaining scandals, (i)\_\_\_\_\_\_ himself on some points in deference to the laws of libel. His anecdotes seem (ii)\_\_\_\_\_, but when carefully scrutinized, their accuracy is less than impressive. What rings false is his picture of the impresarios as unerring Machiavellian schemers—villains who never (iii)\_\_\_\_\_ in their efforts to pile up a fortune and ruin the world of music. However, my experience in the concert and recording world suggests that there is more bumbling than sinister plotting.

Blank (i)

Blank (ii)

Blank (iii)

restraining	
indulging	
deluding	

banal plausible capricious

sympathize blunder dissemble Section 4 of 5 | Question 5 of 15

### Questions 5 and 6 are based on this passage.

Eleanor Roosevelt (1884–1962) effectively advocated political causes that were generally liberal. Yet she opposed ensuring women's strict legal equality with men, which was the aim of a proposed equal-rights amendment. Her opposition to an equal-rights amendment was, by her standards, a radical rather than a conservative position. Roosevelt sought fundamental changes to improve conditions for the poor, especially women and children, but saw women as distinct from men in their biological and social roles. She believed that the enactment of special legislation to protect women from exploitation in the workplace, legislation that would be prohibited by an equal-rights amendment, was necessary for women's welfare—and might ultimately pave the way for protection of male workers as well.

It can be inferred that Eleanor Roosevelt's opposition to an equalrights amendment was based in part on

a belief that legal equality with men would be contrary to

- a belief that legal equality with men would be contrary to women's interests
- a conviction that an equal-rights amendment would not effectively guarantee legal equality for women
- a concern that an equal-rights amendment was too radical a measure to be widely accepted by the public
- an expectation that women would soon achieve equality without a special amendment
- a sense that poverty should be substantially ameliorated before women sought equal rights

•

# Section 4 of 5 | Question 6 of 15

00:15:58 ⊝ Hide Time

Questions 5 and 6 are based on this passage.

Eleanor Roosevelt (1884-1962) effectively advocated political causes that were generally liberal. Yet she opposed ensuring women's strict legal equality with men, which was the aim of a proposed equal-rights amendment. Her opposition to an equal-rights amendment was, by her standards, a radical rather than a conservative position. Roosevelt sought fundamental changes to improve conditions for the poor, especially women and children, but saw women as distinct from men in their biological and social roles. She believed that the enactment of special legislation to protect women from exploitation in the workplace, legislation that would be prohibited by an equal-rights amendment, was necessary for women's welfare—and might ultimately pave the way for protection of male workers as well.

It can be inferred from the passage that supporters of an equal-rights amendment would have disagreed with Eleanor Roosevelt about

- whether strict legal equality between men and women ought to have been enacted at that time
- whether male workers should ultimately be protected by legislation regulating the workplace
- whether passage of an equal-rights amendment would cause conditions for women in the workplace to deteriorate
- the gravity of the problems experienced by women in the workplace
- the likelihood that an equal-rights amendment would have an impact on working-class women

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Section 4 of 5 | Question 7 of 15

00:14:53 ⊝ Hide Time

Questions 7 to 9 are based on this passage

The first phase of English literature can be described as ending with the Protestant Reformation, which radically changed English culture. Though the literature produced before the Reformation varied markedly, a consistency is often apparent: it was grounded in the Latin Christianity that dominated Western Europe from the early Middle Ages to the sixteenth century. The Christian Church, however, had taken form in the midst of the powerful pagan cultures of ancient Greece and Rome, and the later Roman and Irish missionaries to England planted the Church in the midst of still another pagan culture, that of the ancient Germanic peoples who inhabited England. Oddly enough, the new religion scorned neither the literary tradition of Greco-Roman paganism nor that of Germanic paganism. Aldhelm, the first English poet who wrote in Latin, and Caedmon, the first to use English, were contemporaries, and each sang the praises of the Christian God in an artistic medium inherited from paganism.

According to the passage, which of the following describes the treatment of Greco-Roman paganism and Germanic paganism by Latin Christianity?

- Disdainful rejection of many practices of both
- Careful distinction between the traditions of the two
- Acceptance of the literary traditions of both
- Adaptation of classical literary forms and disinterest in Germanic literary traditions
- Translation of classical literature into an artistic medium inherited from Germanic paganism

## Section 4 of 5 | Question 8 of 15

### 00:12:44 ⊝ Hide Time

#### Questions 7 to 9 are based on this passage.

The first phase of English literature can be described as ending with the Protestant Reformation, which radically changed English culture. Though the literature produced before the Reformation varied markedly, a consistency is often apparent: it was grounded in the Latin Christianity that dominated Western Europe from the early Middle Ages to the sixteenth century. The Christian Church, however, had taken form in the midst of the powerful pagan cultures of ancient Greece and Rome, and the later Roman and Irish missionaries to England planted the Church in the midst of still another pagan culture, that of the ancient Germanic peoples who inhabited England. Oddly enough, the new religion scorned neither the literary tradition of Greco-Roman paganism nor that of Germanic paganism. Aldhelm, the first English poet who wrote in Latin, and Caedmon, the first to use English, were contemporaries, and each sang the praises of the Christian God in an artistic medium inherited from paganism.

	ording to the passage, one characteristic of the literature of Reformation England is that it was
0	stylistically consistent
0	predominantly poetic

- morally indifferent
- o noticeably diverse
- culturally neutral

#### Section 4 of 5 | Question 9 of 15

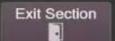
00:11:06 ⊝ Hide Time

#### Questions 7 to 9 are based on this passage.

The first phase of English literature can be described as ending with the Protestant Reformation, which radically changed English culture. Though the literature produced before the Reformation varied markedly, a consistency is often apparent: it was grounded in the Latin Christianity that dominated Western Europe from the early Middle Ages to the sixteenth century. The Christian Church, however, had taken form in the midst of the powerful pagan cultures of ancient Greece and Rome, and the later Roman and Irish missionaries to England planted the Church in the midst of still another pagan culture, that of the ancient Germanic peoples who inhabited England. Oddly enough, the new religion scorned neither the literary tradition of Greco-Roman paganism nor that of Germanic paganism. Aldhelm, the first English poet who wrote in Latin, and Caedmon, the first to use English, were contemporaries, and each sang the praises of the Christian God in an artistic medium inherited from paganism.

It can be inferred that the author of the passage considers the relationship between Christianity and paganism in England before the Reformation to have been

- a reciprocally productive one
- a marginally interdependent one
- a mutually proselytizing one
- an unexpected one
- an appropriate one





Review







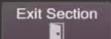
Section 4 of 5 | Question 10 of 15

00:10:01 ⊝ Hide Time

Select the <u>two</u> answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole <u>and</u> produce completed sentences that are alike in meaning.

Even the cleverest use of time management techniques is powerless to \_\_\_\_\_\_ the sum of minutes in a person's life (over 52 million, optimistically assuming a life expectancy of 100 years), so people squeeze as much as they can into each one of them.

- justify
- quantify
- augment
- enrich
- measure
- extend











Next

#### Section 4 of 5 | Question 11 of 15

00:09:19 ⊝ Hide Time

Select the <u>two</u> answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole <u>and</u> produce completed sentences that are alike in meaning.

Biographies can be \_\_\_\_\_ contrivances, often too long and too detailed for their own good.

- subtle
- ingenious
- extravagant
- vain
- wearisome
- onerous

00:08:29 ⊝ Hide Time

Next

Section 4 o	f 5   C	Question	12	of	15
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Select the <u>two</u> answer choices that, when used to complete the sentence, fit the meaning of the sentence as a whole <u>and</u> produce completed sentences that are alike in meaning.

The idea that Antarctica's subglacial lakes are \_\_\_\_\_ has changed radically thanks to repeat-pass satellite altimetry technology, which has found evidence of water transfer between lakes at distances of more than 200 kilometers.

- sterile
- barren
- ☐ isolated
- discrete
- uniform
- obscure

00:06:10 ⊝ Hide Time

#### Section 4 of 5 | Question 13 of 15

## Question 13 is based on this passage.

Growing grapes in greenhouses containing air enriched with carbon dioxide increases crop yields, an effect that is enhanced when the growing temperature is also raised several degrees. Although enclosed cultivation is impractical in vineyards, increases in yields from grape cultivation in the open can be expected because emissions from the burning of fossil fuels will almost certainly lead to an increase in the carbon dioxide content of atmospheric air over the next century.

- Which of the following, if true, most seriously weakens the argument?
- When grapes are grown in greenhouses, it is relatively easy to control the grape pests that thrive in air enriched with carbon dioxide.
- Recent improvements in pest control have increased grape yields in many vineyards.
- Increasing carbon dioxide levels in greenhouses has not been shown to improve the quality of grapes grown in greenhouses.
- Increasing carbon dioxide levels in greenhouses increases the sweetness of raisins made from grapes grown in the greenhouses.
  - As the carbon dioxide level in the open air increases, temperatures at the Earth's surface will also increase.

#### Section 4 of 5 | Question 14 of 15

00:05:38 ⊝ Hide Time

#### Questions 14 and 15 are based on this passage.

It was only in the 1990s that marine scientists became aware of shifting baseline syndrome—the problem of establishing the size of historical populations of marine life in a given species or community. Just what, for example, is a healthy number of red snapper in the Gulf of Mexico? As one fisheries biologist notes, each generation of scientists takes as a baseline "the size and species composition that occurred at the beginning of [that generation's] career." The result is that, over time, the expectation of the natural number of fish gets smaller and smaller. Eventually, the population is so small that even a modest environmental perturbation, or slightly more fishing, causes it to unexpectedly collapse.

The	function of the highlighted sentence is primarily to
0	identify a situation that is especially vulnerable
0	point to a problem that is unlikely to be solved
$\bigcirc$	reformulate a problem into concrete terms
0	pose a question that has only recently been answered
0	introduce a topic for additional consideration

#### Section 4 of 5 | Question 15 of 15

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Questions 14 and 15 are based on this passage.

It was only in the 1990s that marine scientists became aware of shifting baseline syndrome—the problem of establishing the size of historical populations of marine life in a given species or community. Just what, for example, is a healthy number of red snapper in the Gulf of Mexico? As one fisheries biologist notes, each generation of scientists takes as a baseline "the size and species composition that occurred at the beginning of [that generation's] career." The result is that, over time, the expectation of the natural number of fish gets smaller and smaller. Eventually, the population is so small that even a modest environmental perturbation, or slightly more fishing, causes it to unexpectedly collapse.

Of the following, which is the most likely outcome of not being aware of shifting baseline syndrome?

- Exaggerating the threat that overfishing poses to marine species generally
- Failing to see how a healthy fish population is a function of both the number of fish and the number of species in a community
- Being pessimistic as to whether a short-term decline in certain fish species can be reversed
- Assuming that the declining number of fish species in a community is the result of human activity rather than natural fluctuations
  - Treating historical accounts of extremely abundant marine life with skepticism









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Section 5 of 5 | Question 1 of 15

42 inches

The shorter edges of the thin rectangular metal sheet shown above are to be joined to form a right circular cylinder with diameter d inches.

Quantity A

d

Quantity B

9

- O Quantity A is greater.
- O Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.















-

Section 5 of 5 | Question 2 of 15

00:24:47 ⊝ Hide Time

x, y, and z are consecutive odd integers, 0 < x < y < z, and y is a multiple of 5.

#### Quantity A

Quantity B

The remainder when x + z is divided by 10

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.













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Section 5 of 5 | Question 3 of 15





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# $x^{2} + 2y = 5$ $-2x^{2} - 3y = -12$

$$-2x^2 - 3y = -12$$

Quantity A

y

Quantity B

-2

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.













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Section 5 of 5 | Question 4 of 15

00:23:18 ⊝ Hide Time

Each side of square S has length 2. Five different points lie inside S.

### Quantity A

Quantity B

The distance between the closest two points among the five points

 $\sqrt{2}$ 

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

k

Next

٠

Section 5 of 5 | Question 5 of 15

00:21:44 ⊝ Hide Time

$$S = \{1.2, 0.9, 1.3, 1.5\}$$
  
$$T = \{1.2x, 0.9x, 1.3x, 1.5x\}$$

x is a positive number.

#### Quantity A

Quantity B

The standard deviation of the numbers in set S

The standard deviation of the numbers in set T

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

00:20:41 ⊝ Hide Time



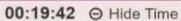
Section 5 of 5 | Question 6 of 15

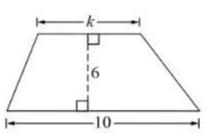
After several expansions, the floor space of a science museum in 2016 was 40 percent greater than that in 2006. If the floor space of the museum in 2016 was 6,300 square meters, what was the floor space of the museum, in square meters, in 2006?

- 2,520
- 3,780
- 3,900
- → 4,500
- O 5,250

Section 5 of 5 | Question 7 of 15

0





If the area of the trapezoidal region above is 45, what is the value of k?

- $\bigcirc 6$   $\bigcirc 7\frac{1}{2}$



Section 5 of 5 | Question 8 of 15

00:18:23 ⊝ Hide Time

Two water faucets are used to fill a tank. Running individually at their respective constant rates, these faucets fill the empty tank in 12 minutes and 20 minutes. How many minutes will it take for both faucets running simultaneously at their respective rates to fill the empty tank?

- O 16.0
- O 10.5
- 8.0
- 7.5
- O 6.0

00:15:19 ⊝ Hide Time

Section 5 of 5 | Question 9 of 15

In the xy-plane, line k has x-intercept 2 and y-intercept 3. Line  $\ell$  is obtained by shifting line k to the right by 3 units and then downward by 2 units. What is the y-intercept of line  $\ell$ ?

$$-\frac{11}{2}$$

$$\bigcirc -\frac{11}{2} \quad \bigcirc -\frac{7}{2} \quad \bigcirc 1 \quad \bigcirc 3 \quad \bigcirc \frac{11}{2}$$

$$\bigcirc \frac{11}{2}$$

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Section 5 of 5 | Question 10 of 15

If x is an integer, what is the least possible value of  $3^x + 3^{-x}$ ?

- $\bigcirc 3$  $\bigcirc 3\frac{1}{3}$

Section 5 of 5 | Question 11 of 15

00:11:53 ⊝ Hide Time

Data set D consists of n values, and the average (arithmetic mean) of the n values is x. Data set Fconsists of the values in D and one additional value y. Which of the following represents the average of the values in F?

$$\bigcirc x + \frac{y}{n}$$

$$\bigcirc \frac{x+y}{n}$$

$$\bigcirc x + \frac{y}{n} \qquad \bigcirc \frac{x+y}{n} \qquad \bigcirc x + \frac{y}{n+1} \qquad \bigcirc \frac{x+y}{n+1} \qquad \bigcirc \frac{nx+y}{n+1}$$

$$\bigcirc \frac{x+y}{n+1}$$

$$\bigcirc \frac{nx+y}{n+1}$$



Section 5 of 5 | Question 12 of 15

00:11:10 ⊝ Hide Time

An artist will arrange 5 identical plastic apples in 3 wooden bowls—one made of maple, one of oak, and one of pine. How many different arrangements are possible such that each bowl will contain at least one apple?

- $\supset$  (
- $\supset g$
- O 10
- O 15
- O 60

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Section 5 of 5 | Question 13 of 15



00:08:55 ⊝ Hide Time

On a construction map of a college campus,  $\frac{1}{3}$  of the area of the campus is marked for landscaping. Of the part of the campus that is not marked for landscaping,  $\frac{1}{8}$  of the area is marked for gym buildings. What fraction of the area of the campus is not marked for either landscaping or gym buildings?

Enter your answer as a fraction, with the numerator and denominator in their respective answer boxes. Backspace to erase.









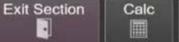


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Section 5 of 5 | Question 14 of 15



A line in the xy-plane has the equation y = mx + 6, where m is a constant and  $3 \le m \le 4$ . Which of the following values could be the x -intercept of the line?

Indicate all such values.

$$\Box$$
  $-\frac{7}{4}$ 

$$\square \frac{5}{4}$$

$$\Box \frac{7}{4}$$

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Section 5 of 5 | Question 15 of 15

Of the 29 students in a class, 15 students study French, fewer than 16 students study Spanish, and

Indicate all such numbers.

the class who study both French and Spanish?

0

5 students study neither French nor Spanish. Which of the following could be the number of students in

3

5

6

3

□ 9

Select one or more answer choices.

Section2	1	2	3	4	5	6	7	8	9	10	11	12			
答案	A	ВВ	СВВ	A	A	AB	CF	DF	AC	E	第二段第 一句话	A			
Section3	1	2	3	4	5	6	7	8	9	10	11	12			
答案	С	A	D	A	ABC	D	c	49	A	E	В	150			Ta. 10
Section4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
答案	С	СВ	cc	ABB	A	A	С	D	D	CF	EF	CD	A	С	E
Section5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
答案	A	C	C	В	D	D	В	D	E	В	E	A	7/12	ВС	ABCD