

Some people believe that success in creative fields, such as painting, fiction writing, and filmmaking, primarily requires hard work and perseverance. Others believe that such success mainly requires innate talents that cannot be learned.

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Write a response in which you discuss which view more closely aligns with your own position and explain your reasoning for the position you take. In developing and supporting your position, you should address both of the views presented.



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

One of the reasons why so many rodent species live in rocky habitat is because it is \_\_\_\_\_: it contains plenty of crevices and cavities in which animals can nest, seek shelter, and find shade.

ecologically stable
readily accessible
hydrologically variable
topographically complex
geographically widespread

Select one answer choice.

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

Though she had some exposure to great art and high culture, it must be said that the ultra-athletic Marion Carstairs remained throughout her life primarily (i)\_\_\_\_\_ mental and artistic pursuits. She was by nature (ii)\_\_\_\_\_.

Blank (i)

Blank (ii)

a product of	neither bookish nor cerebral
indifferent to	a model of delicacy and refinement
obsessed with	both didactic and argumentative

Select one entry from each column.

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

Unlike most other serious journals, which drain money from their owners, the *Review* has long been (i)\_\_\_\_\_. But the formula is not without its imperfections, which have grown more pronounced in recent years. The publication has always been erudite and (ii)\_\_\_\_\_ but not always lively and readable. (iii)\_\_\_\_\_, accompanied by a certain aversion to risk taking, has pervaded its pages for a long time.

Blank (i)

lucrative
realistic
unesteemed

Blank (ii)

authoritative
animated
trendy

Blank (iii)

An originality
An impulsiveness
A staleness

Select one entry from each column.

Questions 4 and 5 are based on this passage.

Early archaeologists studying prehistoric Mesoamerica applied the term “Olmec” to various artifacts of unknown provenance exhibiting an art style distinct from previously known styles of central Mexican cultures. Later, mid-twentieth-century archaeologists began excavating sites in Mexico’s Gulf Coast lowlands, where monumental sculptures with attributes of this distinct style were discovered. Consequently, the Gulf Coast region was identified as the Olmec civilization’s homeland. Thereafter, artifacts exhibiting this style from anywhere beyond the Gulf Coast have been assumed to represent Olmec influence. Although artifact dating is often problematic, Olmec-style objects from outside the homeland are often judged to be either contemporary with Olmec civilization or derived from it. Therefore, some objects are assumed to reflect Olmec origins for cultural developments in areas outside the Gulf Coast.

The author mentions “artifact dating” primarily to

- ☐ concede the validity of a particular argument
- ☐ propose an alternative explanation for a finding
- ☐ explain why a particular methodology has been subject to criticism
- ☐ acknowledge a weakness in a particular line of reasoning
- ☐ account for differences of opinion about the ages of certain artifacts

Select one answer choice.



Questions 4 and 5 are based on this passage.

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It can be inferred from the passage that the “Olmec-style objects”

- ☐ have seldom been discovered at archaeological sites excavated prior to the mid-twentieth century
- ☐ are not generally considered by archaeologists to be precursors to similar objects found in Mexico’s Gulf Coast lowlands
- ☐ have been found to feature certain attributes that are not characteristic of objects found in Mexico’s Gulf Coast lowlands
- ☐ can be dated with somewhat greater certainty than has been possible with regard to Olmec monumental sculptures
- ☐ exhibit less homogeneity in their stylistic attributes than most archaeologists recognized prior to the mid-twentieth century

Select one answer choice.

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.

Theses defended by contemporary philosophers under the banner of metaphysics typically \_\_\_\_\_ the claims of science; that is, they cannot be borne out by experiment as the claims of science are expected to be.

- ☐ derive from
- ☐ originate in
- ☐ contravene
- ☐ challenge
- ☐ transcend
- ☐ go beyond

Select two answer choices.

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.

Contrary to popular myth, cockroaches are not especially tough or radiation resistant; indeed, they are pretty \_\_\_\_\_ as insects go.

- ☐ harmless
- ☐ average
- ☐ strong
- ☐ undistinguished
- ☐ weak
- ☐ hardy

Select two answer choices.



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.

In medieval China, the Confucian emphasis on rites as an outward manifestation of virtue explains Chinese bureaucrats' \_\_\_\_\_ the accurate performance of tributary rituals by foreigners at the imperial court.

- ☐ ambivalence toward
- ☐ preoccupation with
- ☐ proficiency with
- ☐ obsession with
- ☐ regard for
- ☐ anticipation of

Select two answer choices.

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.

The fierce drought that is gripping the area—and imminent rationing and steep water price increases—is \_\_\_\_\_ the area's deep economic divide, as wealthy communities guzzle water while poorer communities nearby conserve by necessity.

- ☐ defining
- ☐ bridging
- ☐ highlighting
- ☐ exacerbating
- ☐ underscoring
- ☐ adjusting

Select two answer choices.

Questions 10 to 12 are based on this passage.

The late zoologist Sidnie Manton acknowledged that arthropods—animals with jointed exoskeletons, such as flies, crabs, and spiders—are all descended from soft-bodied segmented worms. Yet he maintained that differences in limb form, musculature, and embryonic development indicate that these three arthropod groups—insects, crustaceans, and chelicerates, respectively—evolved independently from worms rather than from a common arthropod ancestor. Consequently, according to Manton, shared characteristics such as a jointed exoskeleton and large compound eyes represent cases of convergent evolution—similar yet independent developments—in these organisms. But if they evolved convergently, then one would expect significant differences in the neurological systems supporting sight. In fact, however, many nerve cells play virtually identical roles in supporting complex visual responses in both insects and crustaceans, suggesting that their common ancestor already possessed highly developed eyes, and therefore was probably already an arthropod. Yet the compound eyes of chelicerates differ neurologically from those of insects and crustaceans, suggesting that the eyes of chelicerates did evolve independently and providing partial confirmation of Manton's views.

The primary purpose of the passage is to

- ☐ explain how insects and crustaceans differ from chelicerates
- ☐ evaluate an account of the evolution of various types of arthropods
- ☐ illustrate a case of convergent evolution among different types of arthropods
- ☐ discuss various physiological features of insects, crustaceans, and chelicerates
- ☐ identify underlying similarities in two contrasting theories regarding the evolution of certain arthropods

Select one answer choice.



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It can be inferred that the author of the passage and Manton would be most likely to disagree over which of the following claims?

- ☐ Insects and crustaceans are both descended from segmented worms.
- ☐ Insects and crustaceans each have unique limb form, musculature, and embryonic development.
- ☐ The compound eyes of insects and crustaceans are a case of convergent evolution.
- ☐ None of the characteristics common to insects and crustaceans can be found in segmented worms.
- ☐ Insects and crustaceans are the most closely related of all the arthropod groups.

Select one answer choice.

Questions 10 to 12 are based on this passage.

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It can be inferred from the passage that Manton believed which of the following about the "shared characteristics" mentioned in the passage?

- ☐ The shared characteristics are not all present in any single ancestor of these three arthropod groups.
- ☐ The shared characteristics could be used to determine which of these three arthropod groups gave rise to the other two arthropod groups.
- ☐ The shared characteristics are a good indication that all three groups of arthropods descended from segmented worms.
- ☐ The shared characteristics are the most compelling evidence to date for the theory of convergent evolution.
- ☐ The shared characteristics do not justify classifying all three animal groups as arthropods.

Select one answer choice.



The price of a bag containing 5 pounds of flour is \$1.99. (1 pound = 16 ounces)

Quantity A

Quantity B

The price per ounce of flour in this bag

\$0.03

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

Select one answer choice.



The average (arithmetic mean) of 22, 23, 18, 20, and  $x$  is 20.

The average (arithmetic mean) of 15, 21, 23, 19, and  $y$  is 19.

Quantity A

$x$

Quantity B

$y$

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

Select one answer choice.

Line  $k$  has slope  $-2$  and passes through point  $(3, -1)$ .

Quantity A

The  $x$ -intercept of line  $k$

Quantity B

The  $y$ -intercept of line  $k$

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

Select one answer choice.



$$x \neq -2$$

Quantity A

$$(x + 2)x$$

Quantity B

$$(x + 2)(x - 2)$$

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

Select one answer choice.



If  $6z + 3 > -9$ , which of the following is a possible value of  $z$ ?

- ☐ -9
- ☐ -6
- ☐ -5
- ☐ -2
- ☐ -1

Select one answer choice.



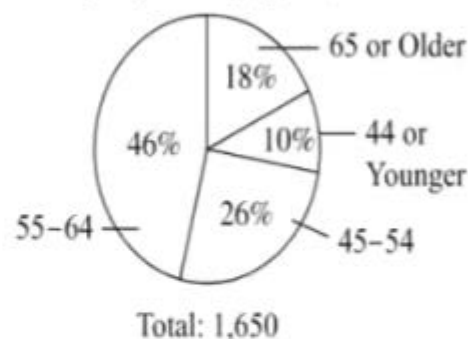
Questions 6 to 8 are based on the following data.

**Survey Results on Long-Term-Care Insurance**

**Number of People Surveyed, by Age-Group**

Age-Group (years)	Number Surveyed
44 or younger	1,600
45–54	3,500
55–64	3,100
65 or older	1,450
Total	9,650

**Distribution of People Surveyed Who Had Long-Term-Care Insurance, by Age-Group (years)**



Of the people surveyed in the age-group 65 or older, if the ratio of the number of women to the number of men was 3 to 2, how many women were in that age-group?

- ☐ 580
- ☐ 640
- ☐ 725
- ☐ 870
- ☐ 967

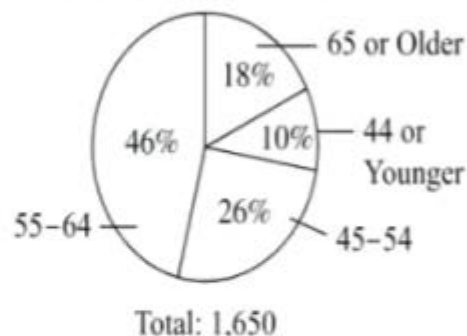
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65 or older	1,450
Total	9,650

**Distribution of People Surveyed Who Had Long-Term-Care Insurance, by Age-Group (years)**



Of the people surveyed who had long-term-care insurance, how many were age 55 years or older?

Enter your answer as an integer or a decimal in the answer box. Backspace to erase.

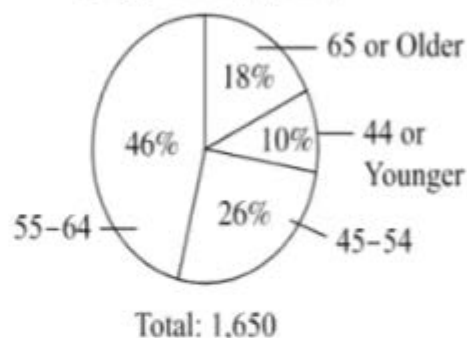
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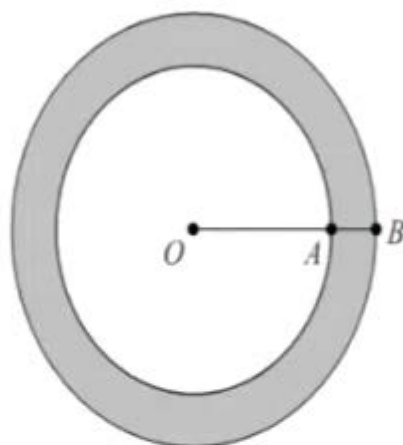
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Total	9,650

**Distribution of People Surveyed Who Had Long-Term-Care Insurance, by Age-Group (years)**



Which of the following is closest to the percent of all people surveyed who were in the age-group 45–54 and had long-term-care insurance?

- ☐ 4.4%
- ☐ 5.8%
- ☐ 7.5%
- ☐ 9.4%
- ☐ 12.3%



The figure above shows two circles with center  $O$ . If  $AB = 1$  and  $OA = 3(AB)$ , what is the area of the shaded region?

Give your answer to the nearest integer.

Enter your answer as an integer or a decimal in the answer box. Backspace to erase.

A certain state charges a sales tax of 3 percent on food and a sales tax of 6 percent on clothing. Judy purchased several food items and several clothing items in the state. The total price of the items, excluding the sales tax, was \$140, and the total sales tax on the items was less than \$5.50. Which of the following could be the price of the clothing items that Judy purchased, excluding the sales tax?

Indicate all such prices.

- ☐ \$30
- ☐ \$40
- ☐ \$50
- ☐ \$60
- ☐ \$70

Select one or more answer choices.



A certain type of material has a mass of 2.5 grams per cubic centimeter. A bar of this material in the shape of a rectangular solid has a mass of 800 grams. If the bar is 3 centimeters wide and is 3 times as long as it is high, approximately how many centimeters high is the bar?

- ☐ 6
- ☐ 9
- ☐ 18
- ☐ 27
- ☐ 35

Select one answer choice.

Which of the following values of  $x$  satisfies the equation  $\frac{x}{2} = n!$  for some positive integer  $n$ ?

- ☐ 160
- ☐ 360
- ☐ 580
- ☐ 720
- ☐ 1,440

Select one answer choice.



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

Much as our taste for sugar and fat served us well in a world of scarce nutrition but has become \_\_\_\_\_ in a world of plenty, where we satisfy it to the point of obesity, our memories can work against us in our contemporary information age.

symptomatic
atrophied
maladaptive
nugatory
heritable

Select one answer choice.

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

While many books have emphasized the differences between Delaney and his father—and his need to differentiate himself from his father—Delaney takes pains in this memoir to \_\_\_\_\_ his closeness with his dad.

underscore
question
repudiate
sidestep
trivialize

Select one answer choice.

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

Most of the bank-efficiency literature suggests that bank mergers culminating in larger, more complex organizations (i)\_\_\_\_\_ significant economies of scale or scope that are (ii)\_\_\_\_\_ to consumers. Indeed, some of this literature suggests diseconomies, which would lead to higher loan rates or lower deposit rates for consumers.

Blank (i)

fail to provide
seek to create
cannot but generate

Blank (ii)

beneficial
responsive
transparent

Select one entry from each column.



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

There is a clear trend away from automobile ownership and solo driving among young people. One view holds that these young people will (i)\_\_\_\_\_ as they age, but Willson argues that the trend is (ii)\_\_\_\_\_ one. As a result, car-free lifestyles will become more (iii)\_\_\_\_\_.

Blank (i)

support mass transit
reject the automobile entirely
increase vehicle ownership

Blank (ii)

a durable
a noticeable
an illusory

Blank (iii)

onerous
expedient
common

Select one entry from each column.

Questions 5 and 6 are based on this passage.

Modern radar observations indicate that the bodies making up Saturn's rings range from small grains to bodies several meters in diameter. This generates some uncertainty about the origin of the material that composes the ring system. One theory is that the orbit of a small satellite diminished until its proximity to Saturn caused it to be torn apart by the planet's tidal forces, breaking it up into bodies a few tens of kilometers in diameter. Further fragmentation by tidal forces would have been unlikely, however, since the effectiveness of tidal forces increases with the size of the body on which they act. Subsequent collisions between these initial bodies could have been the events that produced the finer material to form the rings.

Based on information in the passage, which of the following best describes the "subsequent collisions" ?

- ☐ They must be considered highly speculative because evidence that collisions of this kind occur at all is sparse.
- ☐ They are hypothetical events that provide a way to account for certain findings from radar observations.
- ☐ They most likely occurred immediately following a near collision between Saturn and a satellite.
- ☐ They are unlikely to have occurred because the tidal forces that would be necessary to produce them were probably not strong enough to do so.
- ☐ They could have been responsible for some of the material in Saturn's rings but cannot account for the observed presence of other kinds of material in the rings.

Select one answer choice.

Questions 5 and 6 are based on this passage.

Modern radar observations indicate that the bodies making up Saturn's rings range from small grains to bodies several meters in diameter. This generates some uncertainty about the origin of the material that composes the ring system. One theory is that the orbit of a small satellite diminished until its proximity to Saturn caused it to be torn apart by the planet's tidal forces, breaking it up into bodies a few tens of kilometers in diameter. Further fragmentation by tidal forces would have been unlikely, however, since the effectiveness of tidal forces increases with the size of the body on which they act. Subsequent collisions between these initial bodies could have been the events that produced the finer material to form the rings.

The highlighted sentence serves primarily to

- ☐ introduce evidence that may help to reconcile two competing explanations for Saturn's rings
- ☐ suggest that only some of the material in Saturn's rings is likely to have derived from collisions
- ☐ propose a modification to a particular account of the origins of Saturn's rings
- ☐ explain why one view about the origins of Saturn's rings appears to be untenable
- ☐ confirm a hypothesis concerning the role of tidal forces in producing Saturn's rings

Select one answer choice.



Questions 7 to 9 are based on this passage.

The two primary theoretical traditions that frame research about audience exposure to television carry differential assumptions of how television viewers use the medium. The uses and gratifications approach conceptualizes the audience as active and goal directed when consuming media and offers an understanding of how audience motivations, individual characteristics, and preferences link to media behavior. Findings demonstrate considerable audience activity in decisions about whether to watch television, especially involving program—or program type—preferences. However, studies in this tradition empirically ignore that exposure is not completely free of constraints. Structural or contextual factors, such as the audience member's availability and access to television or other media, the ability or willingness to pay for multichannel services, as well as scheduling factors, impact use of television. Scholars who focus on these structural determinants use aggregate data (usually secondary analyses supplied by Nielsen) to demonstrate consistent patterns of macrolevel audience behavior. Findings from this approach usually have impressive predictive power and utility for explaining the mass audience but are ill-suited to explain the underlying reasons for medium or program choice, including individual motivations for selecting television in the first place.

The primary purpose of the passage is to

- ☐ identify a particular assumption shared by two theoretical models
- ☐ delineate differences between two approaches to the study of a particular subject
- ☐ account for researchers' preference for one theoretical approach over a competing approach
- ☐ evaluate the evidence used to support two different explanations for a particular phenomenon
- ☐ explain how certain problems with a particular research method are addressed by an alternative method

Select one answer choice.

Questions 7 to 9 are based on this passage.

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Select the sentence in the passage that identifies a limitation to the uses and gratifications approach.

Select a sentence in the passage.



Questions 7 to 9 are based on this passage.

The two primary theoretical traditions that frame research about audience exposure to television carry differential assumptions of how television viewers use the medium. The uses and gratifications approach conceptualizes the audience as active and goal directed when consuming media and offers an understanding of how audience motivations, individual characteristics, and preferences link to media behavior. Findings demonstrate considerable audience activity in decisions about whether to watch television, especially involving program—or program type—preferences. However, studies in this tradition empirically ignore that exposure is not completely free of constraints. Structural or contextual factors, such as the audience member's availability and access to television or other media, the ability or willingness to pay for multichannel services, as well as scheduling factors, impact use of television. Scholars who focus on these structural determinants use aggregate data (usually secondary analyses supplied by Nielsen) to demonstrate consistent patterns of macrolevel audience behavior. Findings from this approach usually have impressive predictive power and utility for explaining the mass audience but are ill-suited to explain the underlying reasons for medium or program choice, including individual motivations for selecting television in the first place.

The author would most likely agree with which of the following claims about television viewers' choices of particular programs?

- ☐ They involve factors that may not be sufficiently reflected in the uses and gratifications approach.
- ☐ They are difficult to study because of the paucity of aggregate data about them.
- ☐ They are likely to be less reflective of people's individual preferences than of structural or contextual factors.
- ☐ They cannot be reliably predicted by researchers who use neither of the approaches discussed in the passage.
- ☐ They are largely determined by factors that cannot be studied empirically.

Select one answer choice.



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.

There is a revelation on almost every page of this book, and the author' s prose is \_\_\_\_\_ in the best possible way: blunt, sweet, off-kilter, and often quite funny.

☐ eloquent

☐ austere

☐ somber

☐ awkward

☐ solemn

☐ ungainly

Select two answer choices.

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.

The journalist seems to have \_\_\_\_\_ attitude about truth and falsehood, as exhibited, for example, in a disdain for fact-checking and a repeated failure to correct errors in articles once they are pointed out.

- ☐ a self-righteous
- ☐ a capricious
- ☐ an impulsive
- ☐ an unethical
- ☐ a cavalier
- ☐ a dismissive

Select two answer choices.

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.

While lunar geology may appear to be a relatively \_\_\_\_\_ area of planetary science, it is important to realize that the Moon's surface and interior retain records that shed light on the histories of all terrestrial planets.

- ☐ parochial
- ☐ insignificant
- ☐ narrow
- ☐ new
- ☐ straightforward
- ☐ novel

Select two answer choices.

Question 13 is based on this passage.

Seeds of wild plants generally have thick coats that allow them to survive in the ground until the next growing season. But with domesticated plants, seeds are not sown until the growing season begins. Accordingly, within a given domesticated species, plants with thinner-coated seeds, which germinate more quickly, are advantaged, since quicker germination enables a plant to shade out its slower neighbors, thereby increasing its likelihood of surviving to harvest and contributing seeds to the next planting.

The information given, if accurate, provides the strongest justification for which of the following claims?

- ☐ In the wild, a plant gains no reproductive advantage if its seeds germinate before the seeds of other plants.
- ☐ The relative thickness of the coats of the seeds of two species of domesticated plants reliably indicates which of the plants will grow more quickly.
- ☐ A wild plant such as the Chiltepin, whose seeds have extremely thick coats that ensure that they survive the digestive systems of animals, will be at a disadvantage compared to a wild plant whose seed coats protect only against cold.
- ☐ The cache of *Chenopodium* seeds found at a 3,500-year-old cave dwelling, whose coats are significantly thinner than those of *Chenopodium* known to have grown wild then, supports the hypothesis that the plant had been domesticated by that time.
- ☐ That one of two seeds of the same domesticated species has a thicker coat than the other is evidence that the seed with the thicker coat came from a plant grown in the colder climate.

Select one answer choice.



Questions 14 and 15 are based on this passage.

Images of movement are widely identified as signifiers of the special nature of American texts, differing from the journeys recorded in Classical epic and Medieval romance by being open-ended and reflecting—by their repeated appearance in American writing about the frontier, the sea, the river, and the road—the factual mobility and ideological orientation of American culture. Many critics turning to African American fiction have seen it as an exception, however, noting stasis or at least the absence of similarly liberating movement. In advancing the contrary view that flux and ferment characterize African American literature, Robert Butler sees the motif of the journey—oftentimes a metaphorical, inward journey—as crucial to twentieth-century African American fiction.

It can be inferred that the “critics” described in the passage would probably agree with which of the following about images of movement in American texts?

- ☐ In their images of movement, American texts in general and African American texts in particular are more like Classical epic and Medieval romance than is widely believed.
- ☐ African American literature is distinctive within American literature in that it tends not to present images of movement that are open-ended and liberating.
- ☐ African American literature is distinctive within American literature in that its images of movement often present some kind of inward journey.
- ☐ Images of movement in American texts tend not to be good indicators of the prevailing ideological orientation of American culture as a whole.
- ☐ Increasingly in American texts, images of open-ended movement are giving way to images of stasis and aimless motion.

Select one answer choice.

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In the context in which it appears, “recorded” most nearly means

- ☐ indicated
- ☐ transcribed
- ☐ recounted
- ☐ reproduced
- ☐ sketched

Select one answer choice.



$$-1 < k < 0$$

Quantity A

$$\frac{1}{k^2}$$

Quantity B

$$4$$

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

Select one answer choice.

Thirty percent of the members of Club  $A$  are also members of Club  $B$ . Forty percent of the members of Club  $B$  are also members of Club  $A$ .

Quantity A

The total number of members of Club  
 $A$

Quantity B

The total number of members of Club  
 $B$

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

Select one answer choice.

$$x, y, z, 9, \dots$$

In the sequence shown, each term after the first is 4 more than  $\frac{1}{2}$  of the preceding term.

Quantity A

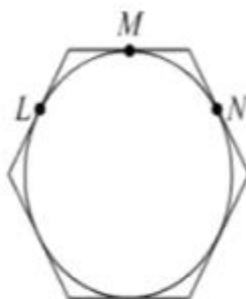
$y$

Quantity B

12

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

Select one answer choice.



In the figure shown, a circle is inscribed in a hexagon and  $L$ ,  $M$ , and  $N$  are points of tangency. In the hexagon, all sides have length 5 and all angles have the same measure.

Quantity A

The length of arc  $LMN$

Quantity B

10

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

Select one answer choice.



In the rectangular coordinate system, point  $(5, 5)$  is equidistant from points  $(x, 0)$  and  $(0, y)$ .

Quantity A

$x$

Quantity B

$y$

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

Select one answer choice.





At a certain store, two smartphones,  $A$  and  $B$ , had the same original price. The price of  $A$  in December was 20 percent less than its original price, and its price in January was 20 percent greater than its price in December. The price of  $B$  in December was 30 percent less than its original price, and its price in January was 30 percent greater than its price in December. Which of the following statements is true about the prices of  $A$  and  $B$  in January?

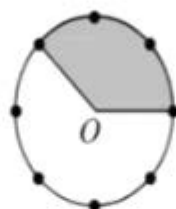
- ☐ The price of  $A$  exceeded the price of  $B$  by 10 percent of the original price.
- ☐ The price of  $A$  exceeded the price of  $B$  by 5 percent of the original price.
- ☐ The price of  $A$  was equal to the price of  $B$ .
- ☐ The price of  $B$  exceeded the price of  $A$  by 5 percent of the original price.
- ☐ The price of  $B$  exceeded the price of  $A$  by 10 percent of the original price.

Select one answer choice.

The sum of all of the solutions of the equation  $x^4 - 5x^2 + 4 = 0$  equals

- ☐ -5
- ☐ -1
- ☐ 0
- ☐ 4
- ☐ 10

Select one answer choice.



The circle above has center  $O$  and circumference  $16\pi$ . If the eight points indicated on the circle are equally spaced, what is the perimeter of the shaded region?

☐  $8 + 4\pi$

☐  $8 + 6\pi$

☐  $16 + 4\pi$

☐  $16 + 6\pi$

☐  $16 + 8\pi$

Select one answer choice.

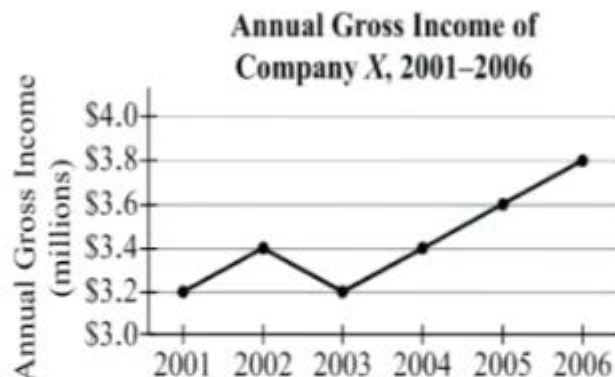


A certain charity is conducting a fund-raiser. For the first \$9,000 raised by the charity, Company *B* will contribute \$1 for every \$3 collected by the charity. For any amount over \$9,000 raised by the charity, Company *B* will contribute \$2 for every \$5 collected by the charity. How much money must the charity raise in order to reach a total of \$68,000, including the contribution from Company *B*?

1

- ☐ \$38,000
- ☐ \$40,000
- ☐ \$42,000
- ☐ \$49,000
- ☐ \$52,000

Select one answer choice.



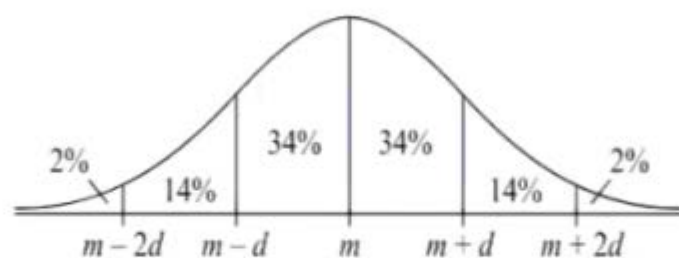
According to the graph, for which of the years 2002–2006 was the percent increase from the preceding year in the annual gross income greater than 6 percent?

Indicate all such years.

- ☐ 2002
 ☐ 2003
 ☐ 2004
 ☐ 2005
 ☐ 2006

Select one or more answer choices.





The figure above shows a normal distribution with mean  $m$  and standard deviation  $d$ , including approximate percents of the distribution corresponding to the six regions shown.

A factory produces metal rods used for machines of a certain type. The distribution of lengths of the rods is approximately normal with mean 15.00 centimeters and standard deviation 0.06 centimeter. Approximately what percent of the rods produced at the factory have lengths greater than 15.10 centimeters?

- ☐ 5%   
 ☐ 7.5%   
 ☐ 10%   
 ☐ 12.5%   
 ☐ 15%

Select one answer choice.



In a game, the cards in a certain deck are distributed to players one at a time until each player has the same number of cards and there are not enough cards left in the deck to distribute one more card to each player. The number of cards in the deck is between 60 and 100. If the cards in the deck are distributed to 5 players, 2 cards will be left in the deck. If the cards in the deck are distributed to 6 players, 4 cards will be left in the deck. If the cards in the deck are distributed to 7 players, how many cards will be left in the deck?

 cards

Enter your answer as an integer or a decimal in the answer box. Backspace to erase.



A certain list has 5 entries and each entry is an integer between 55 and 70, inclusive. The median of the 5 entries is 60. If  $m$  is the average (arithmetic mean) of the 5 entries, which of the following must be true?

- ☐  $54 \leq m \leq 60$
- ☐  $55 \leq m \leq 61$
- ☐  $56 \leq m \leq 62$
- ☐  $57 \leq m \leq 63$
- ☐  $58 \leq m \leq 64$

Select one answer choice.

Line  $k$  in the  $xy$ -plane has  $y$ -intercept 8 and a negative  $x$ -intercept. The area of the triangle bounded by line  $k$  and the coordinate axes is 20. What is the slope of  $k$ ?

Give your answer as a fraction.

<hr/>

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

Which of the following is an odd integer?

☐  $\sqrt{\frac{1}{(3^{-4})(5^{-2})}}$

☐  $\sqrt{\frac{1}{(2^{-2})(3^{-3})}}$

☐  $\sqrt{\frac{1}{(3^4)(5^{-2})}}$

☐  $\frac{1}{(2^{-5})(3^{-3})}$

☐  $\frac{1}{3^{-1} + 5^{-2}}$

Select one answer choice.



Section2	1	2	3	4	5	6	7	8	9	10	11	12			
答案	E	BA	AAC	D	B	EF	BD	BD	CE	B	C	A			
Section3	1	2	3	4	5	6	7	8	9	10	11	12			
答案	B	C	B	D	E	D	1056	A	22	AB	A	E			
Section4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
答案	C	A	CC	CAC	E	C	B	11行 however开 头这句	A	DF	EF	AC	D	B	B
Section5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
答案	D	A	C	B	D	B	C	D	D	2002 2004	A	5	E	8/5	A