

Claim: When one is making a decision, it is better to have a limited number of options.

Reason: The more options a person has, the more difficult it is to make a rational decision.

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.

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

Gravity is the _____ of the four fundamental forces existing in nature, the others being the electromagnetic force, and the strong and weak nuclear forces; yet over large distances it is gravity that dominates.

most stable
least enigmatic
most pervasive
least potent
least understood

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.

Testing alternate versions of web pages in real time can make Internet-based companies
(i) _____ some user preferences, but that does not necessarily make those companies
(ii) _____, as 10,000 ongoing tweaks to the company web site do not add up to a fundamental change of direction when one is needed.

Blank (i)

severely constrained by
rapidly responsive to
surprisingly indifferent to

Blank (ii)

irresolute
transparent
agile

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.

Taruskin' s history of Western music, (i)_____ its remarkable length, makes no claims to comprehensiveness. Taruskin is punctilious, and justifiably proud, in emphasizing that his book is a work of history, not a survey of the repertory. In fact, he (ii)_____ criticism on grounds of omission by cheerfully admitting he has (iii)_____ such side-branch composers as Vaughan Williams, who maintained the British symphonic tradition into the mid-twentieth century.

Blank (i)

owing to
despite
reflecting

Blank (ii)

disarms
attacks
obscures

Blank (iii)

extolled
refuted
ignored

Select one entry from each column.

Questions 4 and 5 are based on this passage.

As originally formulated, the selfish-herd theory of prey species aggregation assumed that predatory attacks were equally likely to be launched from any position within the environment. In some circumstances (e.g., avian predators attacking prey from above), such an approach is appropriate. However, as James et al. argue, in many predator-prey associations, attacks are unlikely to occur from positions within the group. For example, it is likely that an ambushing predator waiting in the path of a group would be detected before the group moves over its position. Hence, in many ecological situations, predatory attacks on grouped prey will occur exclusively from outside the group. In such circumstances, there is a strong premium to a group member in being in the interior of the group.

Consider each of the choices separately and select all that apply.

The passage suggests that compared to members of the prey groups in “some circumstances,” certain members of the prey groups in “many ecological situations” are likely to be less

- ☐ skilled at detecting ambushing predators
- ☐ vulnerable to predator attacks
- ☐ able to reach escape routes to avoid predators

Select one or more answer choices.

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James would most likely describe the original formulation of the selfish-herd theory as

- ☐ completely untenable in its explanation of predator-prey associations
- ☐ ill-equipped to explain exceptions to standard predator-prey associations
- ☐ insufficiently attentive to the diversity of predator-prey associations
- ☐ excessively concerned with the outcomes of predator-prey associations
- ☐ problematically neglectful of the cooperative elements of predator-prey associations

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.

While dehydration during pregnancy does not affect aspik vipers' litter size, pregnant females lost 89 percent more mass than non-reproductive females did when water-deprived, suggesting that female snakes may _____ their own water balance to benefit their offspring.

- ☐ compromise
- ☐ restore
- ☐ regulate
- ☐ sacrifice
- ☐ preserve
- ☐ stabilize

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 Harlem Renaissance has been studied extensively as a literary and visual arts movement, but recent scholars have described the role of music as more than _____ in fact, as having made the Harlem Renaissance possible.

- ☐ necessary
- ☐ mundane
- ☐ essential
- ☐ emotional
- ☐ incidental
- ☐ peripheral

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 campaign official argued that the large swings in the candidate' s approval ratings were a result not of the _____ of the electorate but rather of the polls' margins of error and divergent methodologies.

- ☐ exactitude
- ☐ resurgence
- ☐ capriciousness
- ☐ volatility
- ☐ partisanship
- ☐ scrupulousness

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.

Motorcycle riders in London have discovered an ingenious, albeit _____, way of parking illegally without getting a ticket.

- ☐ inventive
- ☐ unscrupulous
- ☐ astute
- ☐ dishonest
- ☐ impractical
- ☐ shrewd

Select two answer choices.

Questions 10 - 12 are based on this passage.

Although American jazz musician John Coltrane reportedly wrote other poems, the fact that to date only “A Love Supreme” has been made available to the public assures its literary significance: cast in relief as an accompaniment to his best-selling and most celebrated recording, the poem represents the sole authorized and generally accessible discursive component of what would otherwise be a wholly abstract body of creative output. This has had the effect of heightening its perceived significance for interpreting Coltrane’s artistic motivations and his larger spiritual and intellectual interests. The effect seems to have been at least partly by design: by this point in his career, Coltrane was suspicious of any kind of verbal framing for his music, saying he preferred to put out his albums without liner notes and let the music “speak for itself.” He declined, for instance, to be profiled in what became Spellman’s widely discussed 1966 volume of jazz biography as social critique, *Four Lives in the Bebop Business*. In this respect he contrasted with, for instance, his contemporaries and labelmates Charles Mingus and Archie Shepp, older and younger representatives of the jazz avant-garde, respectively, who were much more apt to frame their music with expository text, and even to integrate the latter into the former. So the inclusion of the poem in the liner notes to *A Love Supreme*, a suite in four parts for Coltrane’s working quartet, represented a deliberate and conspicuous gesture of

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- ☐ discuss the motivation for one of Coltrane’s creative choices
- ☐ point to a source of inspiration behind Coltrane’s music
- ☐ question the originality of Coltrane’s artistic expression
- ☐ compare Coltrane’s literary legacy to that of other artists
- ☐ describe an unusual period in Coltrane’s musical career

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The passage suggests that Charles Mingus and Archie Shepp differed from Coltrane in that they

- ☐ collaborated freely with other avant-garde musicians
- ☐ did not view literary accompaniment as distracting from the music
- ☐ viewed cooperating with Spellman as essential to their careers
- ☐ possessed creative talents not only in music but also poetry
- ☐ composed music in a style that was very different from Coltrane’s in style

Select one answer choice.

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The passage suggests that the inclusion of the “A Love Supreme” poem with the recording of the same name was intended to

- ☐ counter the statements made about Coltrane in Spellman’s book
- ☐ demonstrate that Coltrane was a gifted poet as well as a musician
- ☐ show Coltrane’s solidarity with other jazz musicians of his time
- ☐ hint that Coltrane was not sure about his future artistic direction
- ☐ steer listeners toward a particular interpretation of the recording

Select one answer choice.

List L and list N each consist of five positive integers, and no integer is in both lists. The median of the integers in L is less than the median of the integers in N .

Quantity A

The arithmetic mean of the integers in L

Quantity B

The arithmetic mean of the integers in N

- ☐ 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 an appliance store, the ratio of the number of radios in stock to the number of television sets in stock is 0.4. Exactly 10 radios and x television sets are added to the appliances in stock, and the ratio of radios to television sets in stock remains at 0.4.

Quantity A

x

Quantity B

30

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



x is 140 percent of y .

x is 70 percent of z .

Quantity A

z

Quantity B

$2y$

- ☐ 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.

Quantity A

The least possible number of right angles of a quadrilateral

Quantity B

1

- ☐ 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.

y	$13 - 5y$
1	8
2	3
5	-12
k	-27

What is the value of k in the table shown?

Questions 6 to 8 are based on the following data.

**Selected Data for Men and Women over Age 65
Living in the United States, 1995**

Category	Men	Women
Marital Status:		
Single (never married)	4.2%	4.2%
Married	77.1%	42.5%
Widowed	13.5%	47.3%
Divorced	5.2%	6.0%
Household Status:		
Living alone	17.3%	41.8%
Living with family members	74.6%	40.6%
Living with nonfamily members	8.1%	17.6%
Below poverty level	7.2%	14.9%
In the labor force	16.8%	8.8%

Note: In 1995 there were 13.0 million men and 18.3 million women over age 65 in the United States.

How many of the four marital-status categories contained between 1.3 million and 6.5 million men over age 65 ?

- ☐ None
- ☐ One
- ☐ Two
- ☐ Three
- ☐ Four

Select one answer choice.

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In the labor force	16.8%	8.8%

Note: In 1995 there were 13.0 million men and 18.3 million women over age 65 in the United States.

Based on the information given, which of the following statements are true?

Indicate all such statements.

- ☐ There were more single women over age 65 than single men over age 65.
- ☐ The fraction of the number of men over age 65 who were living with family members was less than $\frac{3}{4}$.
- ☐ The number of women over age 65 living alone exceeded the number of men over age 65 living alone by more than 2 million.

Select one or more answer choices.

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Note: In 1995 there were 13.0 million men and 18.3 million women over age 65 in the United States.

If 3.5 percent of the women over age 65 in the labor force were unemployed, which of the following is closest to the percent of all women over age 65 who were employed?

- ☐ 5.3%
- ☐ 6.5%
- ☐ 7.8%
- ☐ 8.2%
- ☐ 8.5%

Select one answer choice.

If even integer x is divisible by positive odd integer y , then x^2 must be divisible by

- ☐ $y + 4$
- ☐ $3y$
- ☐ $4y$
- ☐ $4y + 1$
- ☐ $4(y + 1)$

Select one answer choice.



If r and s are integers such that $2 \leq r < s \leq 7$, what is the greatest possible value of $\frac{r+s}{rs}$?

☐ $\frac{14}{49}$

☐ $\frac{13}{42}$

☐ $\frac{9}{14}$

☐ $\frac{5}{6}$

☐ 1



A large cube and a small cube are made of granite of uniform density. The large cube has edges of length 1.2 meters and weighs 4,752 kilograms. If the small cube has edges of length 10 centimeters, what is the weight, in grams, of the small cube?

- ☐ 275
- ☐ 396
- ☐ 570
- ☐ 2,750
- ☐ 3,960

In the ceiling of a room, an opening was cut in the shape of a square with sides that are 1 foot in length. A circular fixture will be placed over the opening. If the circular fixture covers the square opening completely, which of the following could be the diameter of the circular fixture, in inches? (Note: 1 foot = 12 inches.)

Indicate all such diameters.

- ☐ 12
- ☐ 13
- ☐ 14
- ☐ 15
- ☐ 16
- ☐ 17
- ☐ 18

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

Because we participate in the dynamics of ecosystems as we restore them, restoration practice is in essence antithetical to the idea of _____ wilderness.

improved
protected
remote
pristine
degraded

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.

Many scholars have argued that the United States Supreme Court usually (i)_____ public opinion in its decisions because it fears that it will (ii)_____ if it does not; when it does depart from public opinion, it whips up political maelstroms.

Blank (i)

comments on
hews to
overrides

Blank (ii)

lose public support
mitigate public anger
create public indifference

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.

Thorough cleanings or restorations that try to return much-loved old master paintings to their original condition (i)_____. Quite apart from a reasonable wariness of paint loss, sheer loyalty to the (ii)_____ look of a work, dirt and all, prejudices many. There are also academics who (iii)_____ the removal of retouches and even of overpaintings, holding that even though they may date from years after the original composition, they embody history in themselves.

Blank (i)

generally take years to complete
are increasingly science based
invariably face opposition

Blank (ii)

accustomed
refined
pristine

Blank (iii)

argue for
vacillate about
militate against

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.

Eventually, the framed painting looked as Easton had hoped it would, the frame offering a subtle rebuke to some of the more ostentatious baroque confections on display. Easton believed that it was more (i)_____ than any other frame in the exhibition, despite its (ii)_____ quality. That apparent simplicity, however, was so much more difficult to realize than something more obviously (iii)_____.

Blank (i)

nondescript
ornate
striking

Blank (ii)

unassuming
inexpensive
representative

Blank (iii)

sumptuous
fashionable
outmoded

Select one entry from each column.

Questions 5 and 6 are based on this passage.

The discovery of subsurface life on Earth, surviving independently from surface life, refuted the belief that biological processes require not only liquid water but sunlight as well, thus greatly enhancing the possibility of life beyond Earth. Take Jupiter's moon Europa. Space probes show a body covered with a thick layer of ice. As Europa orbits its planet, however, it flexes due to the gravitational tug-of-war between it, its sister moons, and Jupiter. Through friction, this flexing produces heat in the moon's interior capable of melting ice. Indeed, observations suggest liquid water exists beneath Europa's icy crust. Photosynthetic life is impossible there because sunlight is completely absent, but life such as the microbes that flourish deep within Earth may still be possible.

Consider each of the choices separately and select all that apply.

Life on Europa in the form suggested in the passage would be dependent on

- ☐ the protection Europa's icy crust gives against the harmful components of sunlight
- ☐ the existence of water on Europa
- ☐ the motion of Europa around Jupiter

Select one or more answer choices.

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The highlighted sentence serves to introduce

- ☐ an instance that allows a hypothesis to be tested
- ☐ speculation grounded in empirical discovery
- ☐ a deduction from a newly advanced hypothesis
- ☐ a large-scale effect of an apparently insignificant contingency
- ☐ the derivation of a contradiction to refute a claim

Questions 7 to 9 are based on this passage.

The large merchants who dominated long-distance trade in the Spanish empire for the better part of three centuries have been traditionally depicted by historians as a privileged group that used its political and financial clout to protect its interests while engaging in uncompetitive economic practices, largely to the detriment of Spain and its colonies. This image suggested specifically that the colonial commercial system was irrationally organized, choked Spain's economic progress, and generated unwarranted monopoly rents [profits], all for the benefit of the privileged traders of the merchant guilds.

None of these conclusions are wholly incorrect, but they largely fail to appreciate the unpredictable environment in which these traders engaged. Without having adequately reflected on the role of risk in oceanic commerce, historians have tended to paint an overly one-dimensional portrait of the large merchants and their commercial practices. Long-distance traders responded to conditions of poor information, tremendous uncertainty, and endemic risk by adopting defensive strategies and embracing risk-reducing institutions. Avoiding risk, however, neither meant that the Spanish merchants lacked entrepreneurial spirit nor that they were somehow the precapitalist rentiers that historians sometimes imply. To the contrary, no merchant could operate in the highly risky Atlantic world trade without constantly anticipating and taking active measures to avoid catastrophe. Being successful in early modern, long-distance trade required that merchants act

The primary purpose of the passage is to

- ☐ dismiss a long-standing interpretation of large Spanish merchants and their role in the colonial commercial system
- ☐ discuss two antithetical views of the difficulties faced by Spanish long-distance traders
- ☐ reconsider certain assumptions about Spanish long-distance traders and their commercial practices
- ☐ examine the reasons why some Spanish merchants who engaged in oceanic commerce succeeded while others failed
- ☐ explain why oceanic commerce was so risky for Spanish merchants engaged in long-distance trading

Select one answer choice.

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Which of the following can be inferred from the passage about the "defensive strategies" ?

- ☐ They led some large Spanish merchants into financial ruin.
- ☐ They were effective only under very specific circumstances.
- ☐ They were not widely used by large Spanish merchants.
- ☐ There has been disagreement among historians as to how effective they were.
- ☐ They have been viewed by some scholars as monopolistic in nature.

Select one answer choice.

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trade in the Spanish empire for the better part of three centuries have been traditionally depicted by historians as a privileged group that used its political and financial clout to protect its interests while engaging in uncompetitive economic practices, largely to the detriment of Spain and its colonies. This image suggested specifically that the colonial commercial system was irrationally organized, choked Spain's economic progress, and generated unwarranted monopoly rents [profits], all for the benefit of the privileged traders of the merchant guilds.

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Consider each of the choices separately and select all that apply.

The author and the historians mentioned in the first sentence would probably agree on which of the following issues?

- ☐ Whether Spanish traders used their influence to protect their interests
- ☐ Whether Spanish traders engaged in some uncompetitive practices
- ☐ Whether Spain's economic progress was inhibited by certain behaviors on the part of Spanish traders

Select one or more 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 order to cultivate new repertoire, the music industry is providing a hearing for previously _____ female composers.

- ☐ idle
- ☐ thwarted
- ☐ celebrated
- ☐ renowned
- ☐ anonymous
- ☐ obscure

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.

We might be much closer to building the next generation of observatories if competing groups of astronomers had not _____ repeated chances to collaborate; instead, three separate projects with common goals are fighting one another for funding.

- ☐ spurned
- ☐ avoided
- ☐ sabotaged
- ☐ rebuffed
- ☐ initiated
- ☐ commenced

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 1901 steel negotiations featured Morgan in his most famously _____ mode: knocking heads together, barking out prices for properties, and forcing titans to truckle to his will.

- ☐ quixotic
- ☐ eccentric
- ☐ histrionic
- ☐ theatrical
- ☐ chivalrous
- ☐ importunate

Select two answer choices.

Question 13 is based on this passage.

Stress is a contributing factor in many illnesses, and for many people much of the stress in their lives is job-related. Purposeful leisure-time activities, as distinct from leisure time spent idly, are a good way of taking one's mind off one's job. Clearly, therefore, people who are under much job-related stress can get some measure of protection from stress-induced illness if they engage in purposeful leisure-time activities.

Which of the following, if true, most strengthens the argument?

- ☐ For people who experience job-related stress, purposeful leisure-time activities are not generally a source of stress.
- ☐ Generally, the people who experience the greatest job-related stress are those who have the least amount of leisure time.
- ☐ Many people who are under great stress on the job have no particular desire to engage in purposeful leisure-time activities.
- ☐ Medical treatments for people who have fallen ill do not usually include efforts to remove the stress that might have contributed to the illness.
- ☐ Some inherently stressful jobs are so structured that the people holding those jobs are guaranteed adequate leisure time at reasonable intervals.

Select one answer choice.

Questions 14 and 15 are based on this passage.

Robert Philip argues that the advent of recorded music has directed performance style into a search for greater precision and perfection, with a consequent loss of spontaneity and warmth. Various expressive devices once common in classical music have been almost outlawed, including portamento (sliding from one note to another on a stringed instrument), playing the piano with the hands not quite synchronized, and flexibility of tempo. Philip fully documents these changes. However, other forces independent of recording were also at work. For example, the freedom of tempo so valued by Philip was, in its time, both a necessary expedient and disastrously abused. Recording alone did not cause the reaction against it, although hearing a particularly unintelligent use of it on disc may have reinforced the prejudice.

A criticism of Philip implied by the passage is that he

- ☐ exaggerates the extent of a change in performance style
- ☐ attributes a change in performance style to a single cause
- ☐ ignores unintelligent uses of certain performance techniques
- ☐ values performance techniques that have lost their effectiveness
- ☐ limits his discussion of performance style to classical music

Select one answer choice.

Questions 14 and 15 are based on this passage.

Robert Philip argues that the advent of recorded music has directed performance style into a search for greater precision and perfection, with a consequent loss of spontaneity and warmth. Various expressive devices once common in classical music have been almost outlawed, including portamento (sliding from one note to another on a stringed instrument), playing the piano with the hands not quite synchronized, and flexibility of tempo. Philip fully documents these changes. However, other forces independent of recording were also at work. For example, the freedom of tempo so valued by Philip was, in its time, both a necessary expedient and disastrously abused. Recording alone did not cause the reaction against it, although hearing a particularly unintelligent use of it on disc may have reinforced the prejudice.

The author would most likely agree with which of the following statements about the “devices” ?

- ☐ Increases in the technical proficiency of performers have made their use superfluous.
- ☐ They are not useful tools for musical expressivity.
- ☐ The advent of recorded music had little or no effect on their popularity.
- ☐ Their use cannot usually be detected in a recording, even when they were used in the recorded performance.
- ☐ At least some of them have been used inappropriately in the past.

Select one answer choice.

When the integer k is divided by 6, the remainder is 4. When $8k$ is divided by 6, the remainder is x .

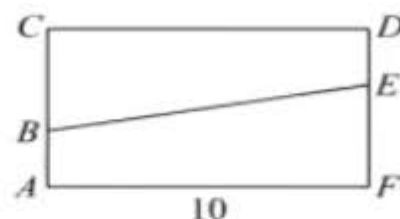
Quantity A

x

Quantity B

3

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



$ACDF$ is a rectangle, the area of quadrilateral $ABEF$ is 30, and $AB = DE$.

Quantity A

The length of AB

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.

On May 1 Ben bought n shares of stock for a price of t dollars per share, where $n > 20$. On June 1 he sold $(n - 20)$ of the shares for a price of $(t + 1)$ dollars per share. On July 1 he sold the remaining shares for a price of $(t + 3)$ dollars per share.

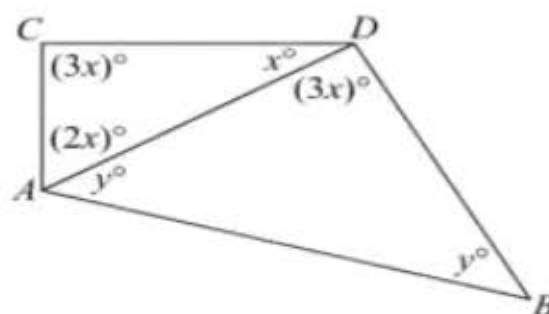
Quantity A

The total price for which Ben sold the n shares minus the total price for which Ben bought the n shares

Quantity B

$(n + 40)$ dollars

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



Quantity A

$$\frac{AB}{AC}$$

Quantity B

$$2\sqrt{2}$$

- ☐ 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.



$$0 < a < b < c$$

Quantity A

The standard deviation of the seven numbers $-c, -b, -a, 0, a, b, c$

Quantity B

The standard deviation of the seven numbers $-c^2, -b^2, -a^2, 0, a^2, b^2, c^2$

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

According to a tax rate formula for a certain year, the amount of tax owed by an individual whose annual income was between \$31,850 and \$77,100 was equal to a base tax of \$4,386 plus 24 percent of the annual income that exceeded \$31,850. According to this formula, what was the amount of tax owed by an individual whose annual income that year was \$42,000?

\$



If $0 < x \leq 1$, which of the following inequalities must be true?

☐ $x < x^2 < 1$

☐ $x < x^2 \leq 1$

☐ $x \leq x^2 \leq 1$

☐ $x^2 < x < 1$

☐ $x^2 \leq x \leq 1$

Select one answer choice.

A certain monthly interest rate changed each month in 1999. For each month, the rate was either 0.01 percentage point higher or 0.01 percentage point lower than that of the previous month. For January of 1999, the rate was 0.50 percentage point. How many of the five values 0.48, 0.49, 0.50, 0.51, and 0.52 cannot be the rate, in percentage points, for April 1999 ?

- ☐ None
- ☐ One
- ☐ Two
- ☐ Three
- ☐ Four



If the volume of a cube is 0.027, what is the surface area of the cube?

- ☐ 0.09
- ☐ 0.162
- ☐ 0.36
- ☐ 0.54
- ☐ 1.80

Select one answer choice.

Of the 7 guests at a party, 3 are close friends of the host and 4 are acquaintances of the host. At the end of the party, the host will randomly select 2 different guests to win prizes. What is the probability that both of the prizewinners will be among the 3 close friends of the host?

☐ $\frac{1}{7}$

☐ $\frac{1}{6}$

☐ $\frac{2}{7}$

☐ $\frac{1}{3}$

☐ $\frac{2}{3}$



In the xy -plane, what is the y -coordinate of the point of intersection of the lines whose equations are $y = -3x + 6$ and $y = -15x - 6$?

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



If n acres of land can be irrigated with g gallons of water, how many acres of land can be irrigated at this rate with 1,000 gallons of water?

☐ $\frac{gn}{1,000}$

☐ $\frac{g}{1,000n}$

☐ $\frac{n}{1,000g}$

☐ $\frac{1,000g}{n}$

☐ $\frac{1,000n}{g}$

Select one answer choice.



What is the least integer that can be expressed as a product of four different integers, each of which has a value between -5 and 4 , inclusive?

- ☐ -60 ☐ -120 ☐ -180 ☐ -240 ☐ -500

Select one answer choice.

Mike, Scott, Jim, Kate, and Pete each have a different number of assignments this month. Pete has fewer assignments than Kate, Kate has more assignments than Mike, Mike has more assignments than Jim, and Jim has more assignments than Scott. Which of the following could be the person who has the median number of assignments this month for the five people listed?

Indicate all such people.

- ☐ Mike
- ☐ Scott
- ☐ Jim
- ☐ Kate
- ☐ Pete

The number of different subsets of 4 elements that can be selected from a set of 6 elements is 15. How many more different subsets of 4 elements can be selected from a set of 8 elements than from a set of 6 elements?

- ☐ 55
- ☐ 35
- ☐ 20
- ☐ 9
- ☐ 8

Select one answer choice.

Section2	1	2	3	4	5	6	7	8	9	10	11	12			
答案	D	BC	BAC	B	C	AD	EF	CD	BD	A	B	E			
Section3	1	2	3	4	5	6	7	8	9	10	11	12			
答案	D	B	C	B	8	B	ABC	E	C	D	D	17 18			
Section4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
答案	D	BA	CAC	CAA	BC	B	C	E	ABC	EF	AD	CD	A	B	E
Section5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
答案	B	D	C	C	D	6822	E	D	D	A	9	E	D	Mike, Jim, Peter	A