GRE 8月机经01

2023最新真题

GRE全程班

课程特色

Office Hour 及时答疑 · **3个月内 无限回看** · **还原全真 模考系统** · **名师授课 攻克难点** · **实战新题 趋势预测** · **提供全套 备考资料**

课时安排

- GRE系统扫盲课
- 10课时数学直播
- 附赠6课时作文录播
- 12课时填空直播
- 12课时阅读直播
- 7天Verbal刷题课

课程表

GRE必考题全程班

日期	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
课程	GRE群内文字开营	GRE开营仪式	填空一	数学一	阅读一	作文录播一	阅读二
上课时间	美东 21:00-21:30 美中 20:00-20:30 美西 18:00-18:30 国内 9:00-9:30	美东 21:00-21:30 美中 20:00-20:30 美西 18:00-18:30 国内 9:00-9:30	美东 21:30-23:30 美中 20:30-22:30 美西 18:30-20:30 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00
单词课安排		单词List1-2	单词List3-4	单词List5-6	单词List7-8	单词List9-10	单词List1-10

日期	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
课程	单词测试1 + Office Hour	填空二	数学二	数学三	填空三	作文录播二	休息
上课时间		美东 21:30-23:30 美中 20:30-22:30 美西 18:30-20:30 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:30-23:30 美中 20:30-22:30 美西 18:30-20:30 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	休息
单词课安排	复习List1-10	单词List11-12	单词List13-14	单词List15-16	单词List17-18	单词List19-20	单词List11-20

日期	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20
课程	单词测试2 + Office Hour	阅读三	数学四	填空四	阅读四	作文录播三	休息
上课时间		美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:30-23:30 美中 20:30-22:30 美西 18:30-20:30 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	休息
单词课安排	复习List11-20	单词List21-22	单词List23-24	单词List25-26	单词List27-28	单词List29-30	单词List21-30

日期	Day 21	Day 22	Day 23	Day 24	Day 25	Day 26	Day 27
课程	单词测试3 + Office Hour	阅读五	填空五	阅读六	填空六	数学五	模考训练日
上课时间		美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:30-23:30 美中 20:30-22:30 美西 18:30-20:30 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	美东 21:30-23:30 美中 20:30-22:30 美西 18:30-20:30 国内 9:30-11:30	美东 21:00-23:00 美中 20:00-22:00 美西 18:00-20:00 国内 9:00-11:00	模考训练日
单词课安排	复习List21-30	单词复习1-6	单词复习7-12	单词复习13-18	单词复习19-24	单词复习25-30	

日期	Day 28	Day 29	Day 30	Day 31	Day 32	Day 33	Day 34
课程	阅读刷题 (录播)	填空刷题 (录播)	阅读刷题 (录播)	填空刷题 (录播)	阅读刷题 (录播)	填空刷题 (录播)	阅读刷题 (录播)
上课时间	3篇短文章+2篇中文章 (不限时)	20双空题专项+10道综合训练 (不限时)	10道逻辑单题, explanation+weaken (不限时)	20道三空训练+10道综合训练 (不限时)	2篇短文章+1篇中文章+1篇长文章 (不限时)	20道六选二专项+10道综合训练 (不限时)	2篇短文章+1篇中文章+1篇长文章 (不限时)

GRE Verbal实战刷题班

为已经掌握方法、备考进入**中期阶段**的同学们量身定制，在短期内实现**实战练习、巩固方法、冲刺出分**。

填空
- 660道填空
- 24套单项模考
- 60+小时视频详解

数学
- 850道数学
- 60+小时视频详解

阅读
- 101篇阅读+模考
- 60道逻辑单题
- 60+小时视频详解

GRE机经使用说明(必读)

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Exit Section | Quit w / Save | Mark | Review | Help | Back | Next

Section 1 of 5 | Question 7 of 19   00:12:53 ⊖ Hide Time

Carbon dating of charcoal gathered from a Nok iron smelter at Intini, Nigeria, suggests that iron technology was established there by 410 B.C. This may not be the oldest smelter in sub-Saharan Africa, however. Archaeologists have located evidence of iron-smelting in the Termit Hills of Niger from as early as 1400 B.C., but skeptics say the wood used for that dating could have already been centuries old when burned as fuel-a problem that dogs carbon dating, especially in arid places like Niger, where wood desiccates and lasts longer. Of course, the same problem could distort dates for the Intini furnace as well, but here there is an important piece of corroborating evidence: Nok pottery found inside the furnace alongside the charcoal.

The passage is primarily concerned with

○ determining which of two ancient cultures in sub-Saharan Africa was more technologically advanced

○ dating the development of iron technology in sub-Saharan Africa

○ assessing certain advantages and disadvantages of carbon dating in sub-Saharan Africa

○ suggesting a possible link between climate and technological development in sub-Saharan Africa

○ contrasting the iron-smelting techniques of two civilizations in sub-Saharan Africa

Select one answer choice.   问题反馈

Section1 Question1

Quantity A	Quantity B
3^{120}	6^{60}

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

Section1 Question2

$$\frac{3}{5} = \frac{x}{y}$$

Quantity A	Quantity B
x-3	y-5

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

Section1 Question3

The average (arithmetic mean) of 5 consecutive even integers is 20.

Quantity A	Quantity B
The least of the 5 integers	16

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

Section1 Question4

n is a positive integer.
x is the units digit of 7^n.
y is the units digit of 3^n.

Quantity A	Quantity B
|x-y|	3

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

Section1 Question5

$$x < 0$$
$$2y+3 < a$$

Quantity A	Quantity B
$\dfrac{2y+3}{x}$	$\dfrac{a}{x}$

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

Section1 Question6

Beth uses a total of w kilograms of food per week to feed her several cats. Each cat is fed z kilograms per day, where z>0.
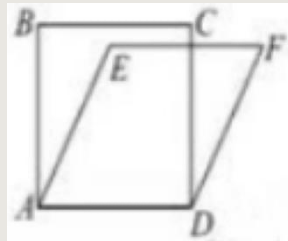
Quantity A	Quantity B
The number of cats Beth has	$\dfrac{w}{7z}$

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

Section1 Question7

Square ABCD and parallelogram AEFD lie in the same plane, and AB=AE.

Quantity A	Quantity B
The area of region ABCD	The area of region AEFD

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

Section1 Question8

At its next meeting a certain committee must discuss 4 different issues, W, X, Y, and Z. If the 4 issues can be discussed in any order, except that issue W must be discussed

2

immediately following issue Z, what is the total number of possible orders of discussion of these issues?

A.4
B.6
C.8
D.12
E.16

Section1 Question9

If k, n, and p are consecutive positive even integers and k<n<p, which of the following must be an integer?

A. $\dfrac{k+n+p}{4}$

B. $\dfrac{k+n+p}{6}$

C. $\dfrac{k+n+p}{9}$

D. $\dfrac{k+n+p}{10}$

E. $\dfrac{k+n+p}{15}$

Section1 Question10

At an art auction $\dfrac{1}{3}$ of the pictures were sold during the first hour and $\dfrac{1}{2}$ of the remaining pictures were sold during the second hour. What fraction of the pictures remained unsold at the end of the two hours?

A. $\dfrac{3}{5}$

B. $\dfrac{2}{3}$

C. $\dfrac{1}{2}$

D. $\dfrac{1}{3}$

E. $\dfrac{1}{6}$

Section1 Question11

A store sells bags of marbles containing either 12 or 25 marbles per bag. A customer bought several bags of marbles from the store. Which of the following could be the total

number of marbles in the bags that the customer bought?
Indicate <u>all</u> such numbers.

A.30
B.42
C.48
D.62
E.96

Section1 Question12

If $x > 0$ and $\frac{10}{14} = \sqrt{\frac{25}{x}}$, what is the value of x?

$$\boxed{}$$

Questions 13 and 15 are based on the following data

Average Cost of a Kilowatt-Hour of Electricity for Selected States of the United States, 1997

The average cost of a kilowatt-hour of electricity for the entire United States in 1997 was 8.5 cents.

Section1 Question13

The total cost of 1,500 kilowatt-hours of electricity at the average cost for California was the same as the total cost of x kilowatt-hours of electricity at the average cost for South Carollina. Which of the following is closest to the value of x?

A.3,100
B,2,900
C.2,300
D.1,100

E.1,000

Section1 Question14

At the average cost of a kilowatt-hour of electricity for Washington, what was the total cost in dollars for the electricity to light 1,000 lightbulbs of 60-watts for 24 hours? (One 60-watt lightbulb uses 60 watt-hours of electricity in one hour when lit. 1,000 walt-hours= 1 kilowalt-hour 1 dollar=100cents)

A.$7.20
B.$30.00
C.$72.00
D.$120.00
E.$300,00

Section1 Question15

If the average cost of a kilowatt-hour of electricity for Pennsylvania and Georgia were each to increase by 3 cents and the average cost for the other 7 states were to remain unchanged, approximately what would be the median of the average costs of a kilowatt-hour of electricity, in cents for the 9 states?

A.12.5
B.11.5
C.10.0
D.9.5
E.9.0

Section1 Question16

A certain candle store has 1,000 unscented candles, 1,000 blue candles, and 2,000 white candles in stock. Of the blue candles, 75 percent are scented and of the white candles, 85 percent are scented. If a customer buys all the unscented blue candles and all the unscented white candles, how many unscented candles will remain in stock?

Section1 Question17

If a four-digit number is to be formed from the digits 1, 2, 3, and 4 by selecting each digit at random and using each digit only once, what is the probability that the number formed will be greater than 3,000?
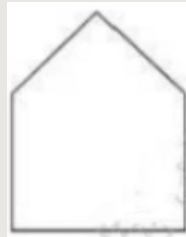
A. $\frac{1}{2}$

B. $\frac{1}{4}$

C.$\dfrac{1}{8}$

D.$\dfrac{1}{12}$

E.$\dfrac{1}{24}$

Section1 Question18

What is the average (arithmetic mean) degree measure of the interior angles of the polygon above?

A.135

B.108

C.90

D.72

E.36

Section1 Question19

In the rectangular coordinate system, one line has the equation y=2x+3 and a second line has the equation y=-2x-3. These lines intersect at the point

A.(0, 0)

B.(0, 3)

C.(0, -3)

D.($-\dfrac{3}{2}$, 0)

E.($\dfrac{3}{2}$, 0)

Section2 Question1

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

If magic had earlier been used as_____uncertainties, something to counter the caprices of nature and sudden death, many people in the period under discussion came to see it primarily as a cause of those dangers.

A) an invocation of
B) a surrogate for
C) a ward against
D) a distortion of
E) a premonition of

Section2 Question2

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

The headmaster believed that the school's strict code of conduct was very useful for making teenagers give up their_____ways, turning them into minders of tradition and discipline.

A) contumacious
B) orthodox
C) clannish
D) partisan
E) solicitous

Section2 Question3

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

Lowland tropical rain forest is the habitat in which parrots are particularly prevalent, and they seem to be more common along the edges of forest where it borders a watercourse or adjoins open clearings. However, that appearance may not reflect what habitat is actually (i)_____parrots: parrots may just be (ii)_____in such areas.

Blank (i)	Blank (ii)
A) inimical to	D) inclined to congregate

B) frequented by	E) atypically distributed
C) preferred by	F) more easily observed

Section2 Question4

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

In the author's view, the idea that individuals have different leaning styles, such as auditory or kinesthetic, is (i)_____; it may be highly intuitive to many, but it is simply (ii)_____.

Blank (i)	Blank (ii)
A) a foundational assumption	D) erroneous
B) an untested hypothesis	E) demoralizing
C) a pernicious myth	F) incontrovertible

Section2 Question5

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

Defying expectation, the electorate seems poised to (i)_____a number of political tenets so (ii)_____that they are often paraded as fact.

Blank (i)	Blank (ii)
A) propound	D) entrenched
B) reject	E) intricate
C) uphold	F) tenuous

Section2 Question6

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

When a new scientific discovery is discussed in a scientific paper or book, the process of discovery is often represented as something (i)_____and almost (ii)_____. Unfortunately, science publishers simply do not have space for detailed descriptions of experiments that fail along with discussions of every false start and blind alley, elements that are associated with even quite (iii)_____endeavors.

Blank (i)	Blank (ii)	Blank (iii)
A) straightforward	D) redundant	G) successful
B) exciting	E) inevitable	H) compromised
C) circuitous	F) random	I) ambitious

Questions 7 and 8 are based on this passage

In 1644 Descartes described Earth as consisting of a central nucleus of hot primordial fluid surrounded by a solid opaque layer and then succeeding layers of rock metal, water and air Geophysicists still subscribe to the notion of a layered Earth. In the current view, however Earth possesses a solid inner core and a molten outer core, both consisting of iron-rich alloys at enormous temperatures and pressures, followed, at about 2,900 kilometers below the surface by a mantle of solid, less dense magnesium-iron silicates; the boundary between the upper and lower mantle lies 670 kilometers below the surface. At 30-50 kilometers below the continental surface (less than 10 kilometers below the seafloor) the Mohorovicic discontinuity marks an additional boundary—that between the mantle and the less dense crust above it.

Section2 Question7

According to the current view, a feature that distinguishes Earth's mantle from its core is that the mantle

A.contains a significant amount of iron
B.consists of two distinct layers
C.is characterized by enormous pressures
D.is characterized by enormous temperatures
E.does not have a significant liquid component

Section2 Question8

In the passage, Descartes' description of Earth's interior is presented as

A.contradicting previous thinking in a way similar to the current theory
B.having been overlooked when the current theory was being developed
C.having inspired the creation of the current theory
D.anticipating certain aspects of the current theory
E.having certain advantages over the current theory

Questions 9 and 12 are based on this passage

From roughly 1900 B.C. to 1750 B.C.during the Middle Minoan period, the first Minoan palaces on the Greek island of Crete were built. A.Evans [a British archaeologist who excavated the city of Knossos on Crete in the early twentieth century] considered the more or less simultaneous appearance of the first palaces at Knossos, Phaistos, and Malia to have been largely the resuit of eastern influence. While he was careful to point out the importance that purely local elements played in the process, he

believed that the basic concept of a palace had probably been imported. In fact to Evans the overall historical significance of Minoan Crete was the crucial role it played in the transmission of high culture from the eastern "Cradle of Civilization [in the parts of Asia relatively close to Crete] to Europe. In the 1970s, partly in reaction to A Evans's diffusionist *ex oriente lux* [i.e."out of the East, light"] model, a new generation of scholars, including C. Renfrew, K. Branigan, and P Warren, saw the palaces as the end products of a series of interacting local social and economic processes that had been underway throughout the Early Bronze Age, but that only fully meshed around 1900 B.C. Branigan and Warren saw most of the essential elements of the later palaces already present in Early Minoan buildings at Myrtos and Vasiliki.

Most scholars would now agree that at least the general idea of a monumental palace, along with the general notion of writing and record keeping, was inspired by Near Eastern or Egyptian models or both. What has changed since the time of A. Evans, however, is that experts have acquired a new appreciation of the complexity of the issue. Writing in the early 1980s, J. Cherry saw the first palaces as the products of a sudden cultural revolution. Today scholars are gradually deconstructing the assumption that there was a single, monolithic event. No two sites shared precisely the same history, and the underlying social processes are likely to have been intricate and multilinear. The extraordinary buildings at Malia around the end of the Early Minoan period not only embody that complexity, but also encourage one to question the assumption that the first Minoan palace had to have been built at Knossos. Malia is at least as likely a candidate.

Section2 Question9
The primary purpose of the passage is to

A.discuss what Minoans saw as the historical precedents for their palaces
B.delineate a change in scholarly perspective on the Minoan palaces
C.trace the origins of a scholarly controversy concerning the Minoan palaces
D.explain some of the difficulties in establishing accurate dates for the Minoan palaces
E.consider factors that encouraged the development of palaces in Minoan Crete

Section2 Question10
The primary function of the highlighted sentence is to

A.present a wholly new interpretation of the development of Minoan palaces that has become popular among archaeologists
B.suggest a possible link between palace building and the introduction of writing and record keeping in Crete
C.acknowledge that a basic assumption underlying Evans's interpretation of Minoan Crete is sound
D.identify a common interpretation of the primary function of the Minoan palaces in Bronze Age Crete

E.show how scholars such as Branigan and Warren have influenced historical understanding of Minoan Crete

Section2 Question11

The author of the passage would most likely agree with which of the following statements about Cherry's notion or a "sudden cultural revolution"?

A.It is reflective of an older paradigm that most scholars now question.
B.It is based on ideas of historical complexity and multilinearity.
C.It shows how little Minoan archaeology has changed since Evans's time.
D.It is based on a rejection of the notion of an eastern influence on Bronze Age Crete.
E.It presents a viable alternative to Evans's diffusionist model

Section2 Question12

The author of the passage suggests that some scholars have presupposed that the first palace constructed on Crete was

A.built during the Early Minoan period
B.less monumental than later Minoan palaces
C.more fully reflective of eastern influences than later palaces were
D.reflective of local influences only
E.built at Knossos

Section2 Question13

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.

Growth in agricultural production is not a＿＿＿＿phenomenon; there are phases of growth and stagnation.

A.finite
B.linear
C.recurrent
D.straightforward
E.predetermined
F.cyclical

Section2 Question14

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 though the amount of detail in the book seems_____by most standards, some experts contend that much that is necessary has been omitted.

A.spare
B.extravagant
C.lean
D.excessive
E.appropriate
F.typical

Section2 Question15

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.

Cynthia Molloy_____the species of rock fandom that privileges complicated guitar solos over a simple, danceable beat, calling it the "mindless veneration" of technical proficiency.

A.derides
B.misreads
C.scorns
D.undervalues
E.excuses
F.condones

Section2 Question16

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.

According to Peter Kwapong, rural Ghanaian farmers,despite regarding stingless bees as useful animals, by and large have not_____the bees as economic resources.

A.recognized
B.discounted
C.exploited
D.utilized
E.monopolized

F.downplayed

Section2 Question17

When farmers arrived on the central North American prairies in the nineteenth century and began growing wheat, there were a few trees growing along stream banks, but otherwise the area was completely treeless. The farmers cut down many of the existing trees for fuel and housing and rarely planted new ones. Nonetheless, within several decades there were more trees on the prairies than there had been before the farmers arrived.

Which of the following, if true, most helps to explain the increase in the number of trees?

A.Because the availability of water for irrigation was important, farmers planted in fields that were close to streams whenever possible.
B.Many of the trees that grew along stream banks when the wheat farmers arrived were too small to be used for building houses.
C.Crop failures were common and forced many of the first wheat farmers on the prairies to abandon their farms within a few years.
D.Most nineteenth-century farms on the prairies included livestock,which ate most tree saplings they found in their pastures.
E.The wheat farmers actively fought and blocked prairie fires, which until their arrival had burned virtually all vegetation on the prairies every few years.

Questions 18 and 20 are based on this passage

To understand how recent novels both add to and modify the tradition of Black women's fiction, it helps to recall earlier movements within that tradition. In the1970s and 1980s, novelists such as Toni Morrison and Alice Walker were transforming the strategies used by earlier Black female novelists, who, in Barbara Christian's explanation, typically worked to refute "the negative images imposed upon all Black women" In contrast, novels like Morrison's The Bluest Eve (1970) and Walker's The Color Purple (1982) emphasized the struggle for internal self-creation. Knowing, as one of Morrison's characters explains, that"definitions belonged to the definers," a generation of writers focused on creating Black women characters who learned to define themselves positively instead of just reacting against others' stereotypes.

Given Morrison's and Walker's compelling female characters, more recent Black female novelists have felt less need to have their characters begin with fundamental questions of personal identity. Rather, recent novelists' characters generally begin with the confidence that Morrison's struggled to reach by story's end. The characters of recent novelists do deepen in self-awareness as they mature, but they begin in relative self-security, such that their growth can seem, as one critic has put it, "hardly tangible."

Section2 Question18

The passage suggests that recent Black female novelists were less concerned with fundamental questions of personal identity than were earlier Black female novelists largely because these more recent writers

A.felt that previous novelists had spent too much time exploring questions of personal identity

B.felt that such questions had never been a central focus of the tradition of Black women's fiction

C.were influenced by the perception that Morrison and Walker were losing interest in such questions

D.were more interested in stylistic and linguistic concerns than in character development

E.found that previous Black female novelists had thoroughly addressed such questions

Section2 Question19

The author of the passage refers to the novels The Bluest Eye and The Color Purple most likely in order to

A.identify the two most influential novels in the tradition of Black women's fiction

B.identify those works in which the tradition of Black women's fiction began to flourish

C.identify two novels by Black women in which the main focus of the female characters was combating negative stereotypes

D.illustrate one particular stage in the development of the tradition of Black women's fiction

E.illuminate the origins of the tradition of Black women's fiction

Section2 Question20

The passage suggests that the deepening in self-awareness experienced by the characters in the work of recent Black female novelists

A.is difficult for the writers to portray

B.may seem insincere to many readers

C.may be difficult for the reader to discern

D.begins with fundamental questions of personal identity

E.shows a unique concern for self-awareness on the writers part

Section3 Question1

In 1994, Company X's overhead costs were 30 percent greater than its overhead costs in 1993. In 1995, Company X's overhead costs were 20 percent less than its overhead costs in 1994.

Quantity A	Quantity B
Company X's overhead costs in 1995 as a percent of its overhead costs in 1993	105%

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.

D.The relationship cannot be determined from the information given.

Section3 Question2

N is an integer.

Quantity A	Quantity B
$(1)^{5n}$	$(1)^{5+n}$

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.

D.The relationship cannot be determined from the information given.

Section3 Question3

Quantity A	Quantity B
The number of different prime factors of 500	The number of different prime factors of 360

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.

D.The relationship cannot be determined from the information given.

Section3 Question4

List K: 3, 4, 6, 8, x

List L: 5, 8, x

The median of the five numbers in list K is equal to the median of the three numbers in list L.
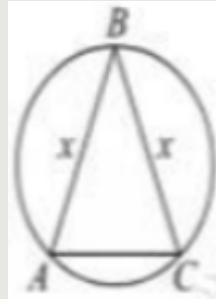
Quantity A	Quantity B
x	6.5

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.
D.The relationship cannot be determined from the information given.

Section3 Question5

Triangle ABC is inscribed in the circle.

Quantity A	Quantity B
The radius of the circle	The length of AC

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

Section3 Question6

$$x+y>1$$
$$x-y>0$$

Quantity A	Quantity B
x	1

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

Section3 Question7

Triangle ABC is inscribed in a circle, side AC is a diameter of the circle, and the length of side AB is equal to the radius of the circle.

Quantity A	Quantity B
The measure of angle ACB	60°

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

Section3 Question8

$$x+y=x^2-y^2 \text{ and } x+y\neq0$$

Quantity A	Quantity B
x-y	1

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

Section3 Question9

In a charity raffle, 10,000 tickets were sold at $1 each. The charity awarded 1 grand prize of $500, 2 second prizes of $100 each, and 10 third prizes of $20 each to holders of prize-winning tickets. If there were no expenses associated with the raffle, what was the charity's net gain per ticket sold?
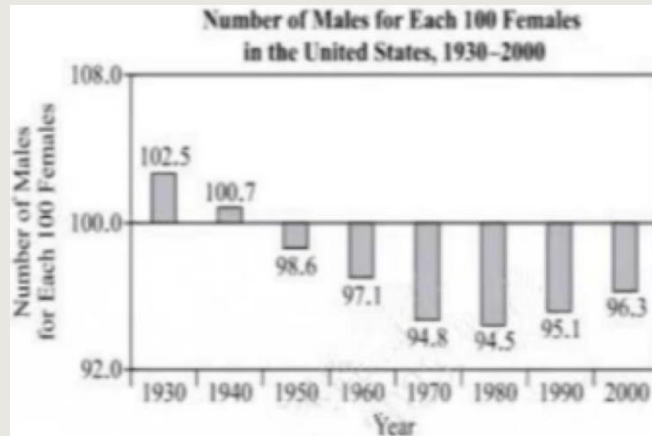
A.$0.06
B.$0.09
C.$0.80
D.$0.91
E.$0.94

Section3 Question10

If $10<k< 20$, then the average (arithmetic mean) of k, k^2, and k^3 is closest to which of the following?

A.3k
B.$\dfrac{k^2}{2}$
C.$\dfrac{k^2}{3}$
D.k^3
E.$\dfrac{k^3}{3}$

Section3 Question11

For which of the years shown in the graph above was the number of males in the United States within 5 percent of the number of females?
Indicate all such years.

A.1930
B.1940
C.1950
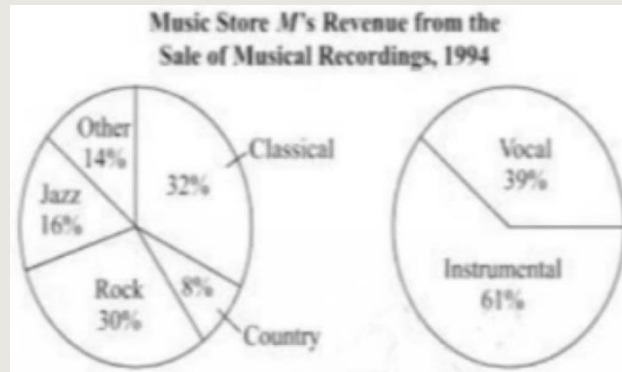D.1960
E.1970
F.1980
G.1990
H.2000

Section3 Question12

If x=-x and |y|=y, where xy≠0, which of the following quantities must be negative?

A.3x+2y
B.3x-2y
C.-3x+2y
D.-2x-3y
E.$2x^2-3y^2$

Section3 Question13

In the xy-plane, line k passes through the points (2, -3) and (a, 3a-9), where a≠2. What is the slope of line k?

Questions 14 and 16 are based on the following data

Total Revenue: $930,000

Section3 Question14

If $\frac{1}{2}$ of the revenue from the sale of jazz recordings was from the sale of vocal jazz recordings, then revenue from vocal jazz recordings was approximately what fraction of revenue from all vocal recordings?

A. $\frac{1}{5}$

B. $\frac{1}{4}$

C. $\frac{1}{3}$

D. $\frac{2}{5}$

E. $\frac{1}{2}$

Section3 Question15

The graphs shown are drawn to scale. Which of the following is closest to the degree measure of the central angle of the sector that represents the category labeled "Other"?

A.40
B.45
C.50
D.55
E.60

Section3 Question16

If in 1995 revenue from the sale of classical music recordings was $\frac{1}{2}$ of its 1994 value while revenue from the sale of all other recordings shown was the same as in 1994, approximately what percent of the total 1995 revenue was from the sale of classical

music recordings?

A.12%
B.16%
C.19%
D.24%
E.28%

Section3 Question17

On May 5, 2004, the closing price of Stock A was \$60.00, which was a decrease of 8 percent from the closing price of the stock on the previous day, May 4, 2004. On May 6, 2004, the closing price of the stock was exactly the same as the closing price on May 4, 2004. What was the percent increase in the closing price of the stock from May 5, 2004, to May 6,2004?
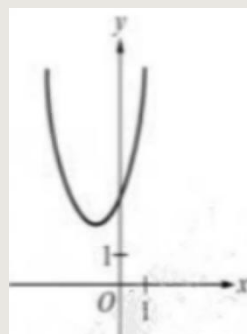Give your answer to the <u>nearest whole percent.</u>

_____%

Section3 Question18

An artist has 3 hooks on the wall and 5 different pictures. How many different arrangements of 3 pictures can be formed if the artist puts one of the 5 pictures on each hook?
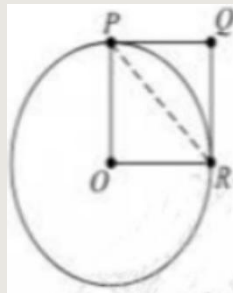
A.10
B.25
C.35
D.60
E.120

Section3 Question19

Of the following which best represents the equation of the graph shown in the xy-plane?

A.$y=(x+1)^2+2$
B.$y=(x-1)^2+2$
C.$y=(x-1)^2-4$
D.$y=(x+4)^2-8$

E.y=(x-4)²-8

Section3 Question20

If the circle above has center O and the diagonal of square OPQR has length 52,what is the length of minor arc PR?

A.$\dfrac{25\pi}{2}$

B.$\dfrac{25\pi}{4}$

C.$\dfrac{5\pi}{\sqrt{2}}$

D.$\dfrac{5\pi}{2}$

E.$\dfrac{5\pi}{4}$

Section4 Question1

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

A curiosity of the film Vertigo is its capacity to generate emotional power from a plot that lacks the most elementary_____: viewers are required to accept not an isolated implausibility, but a continuous stream of them.

A) believability
B) impact
C) narrative
D) tension
E) premise

Section4 Question2

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

For many in the room, the idea of coming to the assistance of a rival was more than unpleasant it was_____.

A) unpropitious
B) anomalous
C) anathema
D) redundant
E) meretricious

Section4 Question3

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

When the researcher first proposed the novel theory of how olfaction works, most of his peers were (i)_____and captious, but their attitude should change with a new study whose results go a long way toward (ii)_____many of their points.

Blank (i)	Blank (ii)
A) skeptical	D) elaborating
B) jubilant	E) implementing
C) uninterested	F) rebutting

Section4 Question4

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

Emphasizing the (i)_____between the territory's mountainous and coastal regions, the "Lebanists" advocating for the formation of modern Lebanon argued that the proposed new country was already a (ii)_____entity and needed only to be recognized as a geopolitical body.

Blank (i)	Blank (ii)
A) distance	D) coherent
B) symbiosis	E) vulnerable
C) conflicts	F) diverse

Section4 Question5

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

The (i)_____that one occasionally finds in the columnist's articles are so memorable that many people think of her as being far more (ii)_____than she in fact is.

Blank (i)	Blank (ii)
A) banalities	D) censorious
B) denunciations	E) praiseworthy
C) accolades	F) irresolute

Section4 Question6

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

Although it is quite probable that many small asteroids in the solar system's asteroid belt have (i)_____, the total mass of these objects cannot be (ii)_____, since the combined gravitational pull of all known asteroids is (iii)_____to fully account for the asteroid belt's effect on the motion of nearby planets such as Mars.

Blank (i)	Blank (ii)	Blank (iii)
A) similar structures	D) diminishing	G) sufficient
B) formed by accretion	E) estimated	H) unlikely

C) escaped detection	F) substantial	I) required

Questions 7 and 8 are based on this passage

Despite today's more efficient electrical generators, modem electric-only power plants waste more of their fuel sources potential energy than did Thomas Edison's power plants of the late 1800s. Edison used cast-off steam from his generators to warm nearby homes and factories. But few modern power plants use this residual heat, instead venting it into the air. When newer, larger plants required more real estate, they were built farther from customers. Moreover, because electricity travels easily, plants were located wherever they could tap the energy of a river or where local coal was especially cheap. The heat generated during the production of electricity does not travel far,however, so when power plants moved out to the horizon, the steam went to waste.

Section4 Question7

It can be inferred from the passage that, in general, locating modern power plants closer to population centers would have

A.compromised efforts to conserve energy in populated areas
B.decreased the demand for heating within those population centers
C.resulted in higher costs for the fuel used by those plants
D.required much larger plants than those currently operating
E.obliged power companies to find an alternative to coal as a fuel source

Section4 Question8

The author suggests that steam generated by modern power plants is not used for heating because

A.steam generally proves incompatible with most modem industrial needs
B.other means of heating have become more cost- effective
C.steam is no longer produced in sufficient quantities to be useful
D.insufficient demand for heating exists nearby
E.transporting steam long distances would prove to be prohibitively expensive

Questions 9 and 11 are based on this passage

Although many scientists argue that natural changes in climate and habitat rather than human activities caused the extinctions of mammals and birds in prehistoric times on continents, most scientists agree that prehistoric humans were involved in the loss of bird species on islands. Even though islands are subject to natural disasters such as drought and severe storms, their fossil records have revealed no major loss of bird species due to such disasters. Instead, on islands occupied by humans, predation, destruction of habitat and introduction of predators, competitors, or pathogens by humans are probably responsible for the extinctions of island birds, whether modern or

prehistoric. Though finding extinct island birds' bones among human artifacts does not prove that humans caused the extinctions, even when evidence of consumption is present, such finds do indicate human predation-which, by analogy with modern cases, probably was one factor leading toward extinction.

Section4 Question9

The primary purpose of the passage is to

A.describe a debate among scientists
B.suggest the likely results of a phenomenon
C.discuss why a phenomenon occurred
D.analyze data that prove that a phenomenon occurred
E.compare similar phenomena that occurred in two different locations

Section4 Question10

It can be inferred that the author of the passage would be most likely to agree with which of the following statements about the extinction of island birds in prehistoric times?

A.It was primarily the result of human predation.
B.It was probably the result of a series of natural disasters.
C.It was probably the result of human activities.
D.It was caused by the same phenomenon that caused the extinction of birds on continents in prehistoric times.
E.Its cause can be established by the examination of extinct birds' bones

Section4 Question11

The passage points out a difference between

A.extinctions of mammals on continents and extinctions of birds on continents
B.extinctions of birds on islands and extinctions of birds on continents
C.extinctions of birds in prehistoric times and extinctions of birds today
D.bones of prehistoric birds and bones of modern birds
E.human activities that contribute to extinctions and human activities that do not contribute to extinctions

Section4 Question12

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.

On close reading, the poem comes across as＿＿＿＿, devoid of any real interest or

substance.

A.vapid
B.curious
C.insipid
D.allusive
E.singular
F.problematic

Section4 Question13

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.

Judge Jones brought some welcome levity to the often tense, though sometimes_____, proceedings.

A.humorous
B.tedious
C.stressful
D.inconsequential
E.fraught
F.tiresome

Section4 Question14

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 concept of the Hellenistic period in ancient history has proved useful but also_____, with scholars disagreeing on the dates when the period began and ended.

A.slippery
B.elusive
C.fruitless
D.deceptive
E.futile
F.compelling

Section4 Question15

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＿＿＿＿markings on some prehistoric bone and antler fragments could be accidents or the result of doodling, but may also represent a form of communication such as tally marks or even early calendars.

A.purposeful
B.enigmatic
C.random
D.inscrutable
E.conspicuous
F.deliberate

Section4 Question16

In a street-sanitation study in Metroville this year, 75 percent of residential city blocks were rated "clean or "very clean," whereas in a similar study a decade ago only 40 percent were rated "clean" or better. Therefore a resident of Metroville today is more likely to live on a clean or very clean city block than a resident a decade ago.

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

A.Industrial pollution in Metroville has increased dramatically in the past decade.
B.Metroville now spends 30 percent less money than it did a decade ago to clean residential streets.
C.Very few of the people who have moved to Metroville in the last decade report the cleanliness of residential streets as a factor in their decision.
D.The percentage of Metroville's residential blocks that were rated "unacceptably dirty was just as high this year as it was a decade ago.
E.This year, unlike a decade ago,the majority of blocks rated "clean" or better consisted mainly of single- family houses rather than apartment buildings.

Questions 17 and 18 are based on this passage

Kam-Biu Liu's examination of sediments from Western Lake, Floridaon the coast of the Gulf of Mexico, shows strikes by twelve very severe hurricanes in the past 3,400 years. Yet almost all occurred more than1,000 years ago suggesting that hurricane activity was much higher then. **What would account for this change?** Liu believes long-term changes in the position and strength of the Bermuda high could be responsible. The Bermuda high, an annual area of high pressure in the North Atlantic.helps determine whether hurricanes forming in the Caribbean head west into the Gulf or veer north. Thus, there were not more hurricanes; it is just that more hit the Gulf Coast. **Sediments** from the Atlantic coast farther north, from Cape Cod to Virginia

Beach support this hypothesis.

Section4 Question17
Which of the following best describes the issue raised by the question in the highlighted portion of the passage?

A.What caused occurrences of a phenomenon to be unevenly distributed across time?
B.What caused occurrences of a phenomenon to be more severe when they happened in an earlier period and less severe in a later one?
C.Why is a physical record of a phenomenon less reliable for a more recent period than it is for an earlier one?
D.Why is a particular location more prone to a certain kind of occurrence than are other apparently similar locations?
E.Can a particular methodology be relied on,given that it has produced an anomalous result?

Section4 Question18

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

It can be inferred that the "sediments" mentioned in the final sentence of the passage provide evidence that

A.during the last 3,400 years, the point at which North Atlantic hurricanes most commonly strike the North Atlantic coast has been moving steadily northward
B.the Bermuda high did not affect weather patterns in the North Atlantic and the Gulf of Mexico until about1,000 years ago
C.compared with what occurred at Western Lake between Virginia Beach and Cape Cod hurricanes became more common in the last 1,000 years

Questions 19 and 20 are based on this passage
In the early nineteenth-century United States, miniature portraits of family members painted on ivory and typically bestowed on other family members as gifts became extremely popular, reflecting the growing importance of affection as a family value. The periods expanding market for miniatures was fueled by the labor of female artists who charged a fraction of the commissions demanded by their male competitors. Especially in urban areas middle-class families took advantage of the competitive, gendered labor market to amass multiple representations of kin. Miniatures depicting children, parents, siblings, and other kin heightened the genre's broadly domestic associations. So, too, did the growing number of women who commissioned paintings. While **full-sized oil paintings** were quite expensive miniatures were generally attainable for middle-class women, making them affordable luxuries.

Section4 Question19

The passage suggests which of the following about miniature portraits in the nineteenth century?

A.They were painted almost exclusively by female artists.
B.They more often represented female than male family members.
C.Their prices rose because the overall market for paintings by women expanded.
D.Their rising popularity reflected an increasing emphasis on the family.
E.The ivory on which they were painted made the portraits quite valuable.

Section4 Question20

The author discusses "full-sized oil paintings" primarily to

A.qualify a claim about the preferences of middle-class art buyers
B.account for a choice made by certain individuals who commissioned paintings
C.explain how the subject matter of a painting could affect its price
D.note a change in the market for paintings created by female artists
E.rule out one explanation for the popularity of family portraits

Section5 Question1

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	Quantity B
The total number of members of Club A	The total number of members of Club B

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.

D.The relationship cannot be determined from the information given.

Section5 Question2

$$R=\{6, 7, 8, 9, 10\}$$
$$S=\{6, 8, 10, 12, 14\}$$

r and s are integers contained in sets R and S respectively.

Quantity A	Quantity B
The number of different possible values of $\frac{r}{s}$	25

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.

D.The relationship cannot be determined from the information given.

Section5 Question3

The four-digit integer 8,82X is a multiple of 9, where X is the units digit.

Quantity A	Quantity B
X	2

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.

D.The relationship cannot be determined from the information given.

Section5 Question4

w and x are integers greater than 1, and $w^3 \prec \sqrt{x}$.

Quantity A	Quantity B
x	60

A.Quantity A is greater.

B.Quantity B is greater.

C.The two quantities are equal.
D.The relationship cannot be determined from the information given.

Section5 Question5

The functions f and g are defined by
$$f(x)=(x-1)(x-2)$$
$$g(x)=-(x-1)^2+3$$
for all numbers x.

Quantity A	Quantity B
The number of times the graph of f(x) in the xy-plane intersects the x-axis	The number of times the graph of g(x) in the xy-plane intersects the x-axis

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

Section5 Question6

In the xy-coordinate plane, P is a point that is equidistant from points (3, 0) and (3, 4).

Quantity A	Quantity B
The x-coordinate of P	2

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

Section5 Question7

$$\sqrt{x^2} = 9$$

Quantity A	Quantity B
2^x	2^{-x}

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

Section5 Question8

If a liter of enamel is required to paint 16 square meters, how many liters of enamel are needed to paint the outside surfaces of a cube of volume 64 cubic meters?
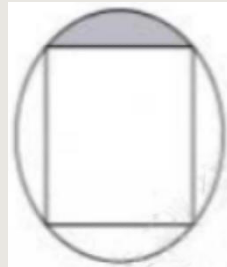
A.16

B.12
C.10
D.8
E.6

Section5 Question9

A square with side of length $\sqrt{2}$ is inscribed in a circle, as shown in the figure. What is the area of the shaded region?

A. $\dfrac{\pi}{4}-\dfrac{1}{2}$

B. $\dfrac{\pi}{2}-\dfrac{1}{2}$

C. $\dfrac{\pi}{2}-1$

D. $\pi-2$

E. $4\pi-2$

Section5 Question10

$$a_1, a_2,..., a_n,...$$

In the sequence of numbers shown, $a_1=13^3$ and $a_n=a_{n-1}+13^3$ for each integer n greater than 1. If $a_k=13^4$, what is the value of k?

A.3
B.13
C.39
D.13^2
E.13^3

Section5 Question11

The width and the length of a rectangular piece of plywood are 4 feet and 8 feet, respectively. Along one edge of the plywood, a strip x <u>inches</u> wide and 8 feet long is removed. Then, along an edge perpendicular to the 8-foot edge, a strip x inches wide is removed. For what value of x will the remaining rectangular piece have width and length in the ratio of 2 to 5? (1 foot=12 inches)

A.4
B.8
C.12
D.16
E.20

Section5 Question12

$$\frac{60! - 59!}{58!} =$$

A.(59)(58)
B.(60)(59)
C.$(58)^2$
D.$(59)^2$
E.$(60)^2$

Section5 Question13

A telephone system has n telephone lines. For each of the n lines, the event that the line will fail during a certain reliability test has probability 0.3 and these n events are independent. If the probability that at least one of the n lines will <u>not</u> fail during the reliability test is greater than 0.99, what is the minimum value of n ?

A.2
B.3
C.4
D.5
E.6

Questions 14 and 16 are based on the following data

Cranberry Harvest in State X, 2014-2018

Year	Number of Acres Harvested	Average Number of Barrels of Cranberries per Acre Harvested	Total Revenue from the Harvest (in thousands)
2014	3,600	129.7	$28.861
2015	3,900	149.2	$32.941
2016	3,900	133.2	$13.702
2017	4,000	172.8	$7,394

Section5 Question14

In 2014, there were 47 cranberry farms in the state. Which of the following is closest to the average (arithmetic mean) number of barrels of cranberries harvested per farm?

A.9,100
B.9,300
C.9,500
D.9,700
E.9,900

Section5 Question15

Based on the information given, which of the following statements are true about the numbers of barrels of cranberries harvested annually in the state?
Indicate <u>all</u> such statements.

A.The number in 2018 was greater than that in 2014.
B.From 2016 to 2017, the number increased by more than 150,000.
C.The total number in 2016 and 2017 combined was less than 1 million.

Section5 Question16

In 2016, if the average revenue per kilogram of harvested cranberries in the state had been \$0.67 instead of what it actually was. then the total revenue from the harvest would have been equal to the total expenses of the harvest. If the cranberries in each barrel of harvested cranberries weigh 45 kilograms, which of the following best describes the profit or loss for the state's cranberry harvest in 2016? (<u>Note:</u> Profit is equal to revenue minus expenses. If a profit is negative, then the absolute value of the profit is called a loss.)

A.A loss of approximately \$2,000,000
B.A loss of approximately \$1,500,000
C.A loss of approximately \$1,000,000
D.A profit of approximately \$1,500,000
E.A profit of approximately \$2,000,000

Section5 Question17

x	y
4	10
16	25

Two quantities x and y are related by the equation $y = x + b\sqrt{x} + c$, where b and c are

constants. The table shows two pairs of corresponding values of x and y that are related by the equation. What is the value of b?
Give your answer as a fraction.

$$b = \frac{\boxed{}}{\boxed{}}$$

Section5 Question18

For all integers x greater than 1,the function p(x)is defined as the number of different prime factors of x.
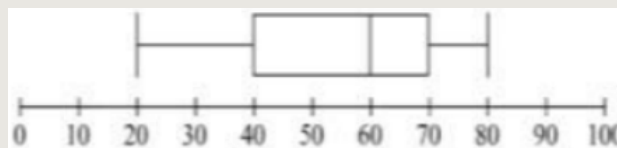
What is the value of $\dfrac{p(12)}{p(9)}$?

A. $\dfrac{2}{3}$

B. $\dfrac{4}{3}$

C. $\dfrac{3}{2}$

D.2

E.3

Section5 Question19

In the xy-plane, the graph of an equation is symmetric with respect to the y-axis if for every point (a, b) on the graph, the point (-a, b) is also on the graph. Which of the following equations have a graph in the xy-plane that is symmetric with respect to the y axis?

Indicate <u>all</u> such equations.

A.y=x

B.y=|x|

C.y=1-x^2

D.y=x^2-1

E.y=x^2-x

Section5 Question20

The boxplot above summarizes a list of 240 numbers. Which of the following statements must be true?

Indicate <u>all</u> such statements.

A.The list contains the number 60.

B.The range of the numbers in the list is less than 4 times the interquartile range of the numbers.

C.There are more numbers in the list that are less than 40 than there are numbers that are greater than 70.

答案领取方式

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