# GRE 8月机经02

**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<br>美中 20:00-20:30<br>美西 18:00-18:30<br>国内 9:00-9:30 | 美东 21:00-21:30<br>美中 20:00-20:30<br>美西 18:00-18:30<br>国内 9:00-9:30 | 美东 21:30-23:30<br>美中 20:30-22:30<br>美西 18:30-20:30<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>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 | 单词测试1 + Office Hour | 美东 21:30-23:30<br>美中 20:30-22:30<br>美西 18:30-20:30<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:30-23:30<br>美中 20:30-22:30<br>美西 18:30-20:30<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>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 | 单词测试2 + Office Hour | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:30-23:30<br>美中 20:30-22:30<br>美西 18:30-20:30<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>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 | 单词测试3 + Office Hour | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:30-23:30<br>美中 20:30-22:30<br>美西 18:30-20:30<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>国内 9:00-11:00 | 美东 21:30-23:30<br>美中 20:30-22:30<br>美西 18:30-20:30<br>国内 9:30-11:30 | 美东 21:00-23:00<br>美中 20:00-22:00<br>美西 18:00-20:00<br>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)

GRE考试换题库频率较高，做周期内的题目最能了解当前考试趋势，也有一定几率遇到原题。 GRE必考题教研组定期将最新考场回忆整理为完整套题，用于模考，为同学们还原最真实的考试体验。考前冲刺必做！



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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.

### Section1 Question1

The area of square region S is equal to the area of circular region C.

|Quantity A|Quantity B|
|---|---|
|The length of a diagonal of S|The length of a diameter of C|

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

$$|x-8|<1$$
$$|y-6|<2$$

|Quantity A|Quantity B|
|---|---|
|x+y|11|

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

n is a positive integer.

|Quantity A|Quantity B|
|---|---|
|The remainder when $5(10^n)+1$ is divided by 3|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.

### Section1 Question4

N copies of a certain health magazine cost a total of $64.

R copies of a certain news magazine cost a total of $80.

|Quantity A|Quantity B|
|---|---|
|The ratio of the cost of 1 of the health magazines to the cost of 1 of the news magazines|$\frac{4}{5}$|

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 Question5

A sequence of numbers $P_1$, $P_2$, $P_3$,…$P_n$,... is generated by the rules $p_1=1$ and $p_n=24p_{n-1}+8$ for each integer $n\geq2$.

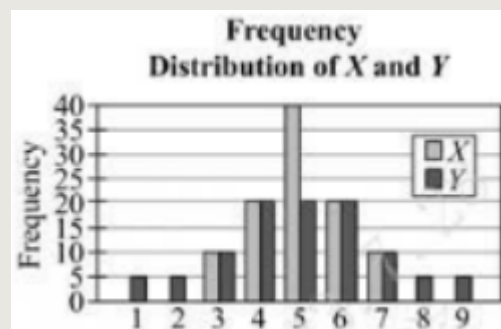| Quantity A | Quantity B |
| --- | --- |
| The remainder when $P_{66}$ is divided by 6 | 4 |

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

p is a prime number greater than 2.

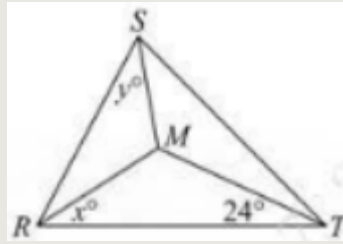| Quantity A | Quantity B |
| --- | --- |
| The number of prime factors of p-1 | 2 |

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.

## Section1 Question7



| Quantity A | Quantity B |
| --- | --- |
| The standard deviation of the distribution of X | The standard deviation of the distribution of Y |

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

In the figure, line segments RM, SM, and TM bisect the angles of △RST.

| Quantity A | Quantity B |
|:---:|:---:|
| $\dfrac{x+y}{2}$ | 33 |

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 Question9

During March of last year Debbie exercised every other day, Rob exercised every third day and both of them exercised on March 4. On which of the following days during March of last year did both Debbie and Rob exercise?
Indicate all such days.

A.March 9
B.March 16
C.March 19
D.March 22
E.March 27

## Section1 Question10

A jar contains 120 jelly beans: 60 red jelly beans, 40 blue jelly beans and 20 yellow jelly beans. If two jelly beans are to be selected at random without replacement from the jar, which of the following is equal to the probability that neither jelly bean will be yellow?

A. $\dfrac{(20)(19)}{(120)(119)}$

B. $\dfrac{(20)(20)}{(120)(120)}$

C. $\dfrac{(60)(60)}{(120)(120)}$

D. $\dfrac{(80)(79)}{(120)(119)}$

E. $\dfrac{(100)(99)}{(120)(119)}$

## Section1 Question11

For the list of numbers 5, 1, 11, 5, x, the average (arithmetic mean) is equal to the mode. What is the value of x?

A.1
B.2
C.3
D.4
E.5

## Section1 Question12
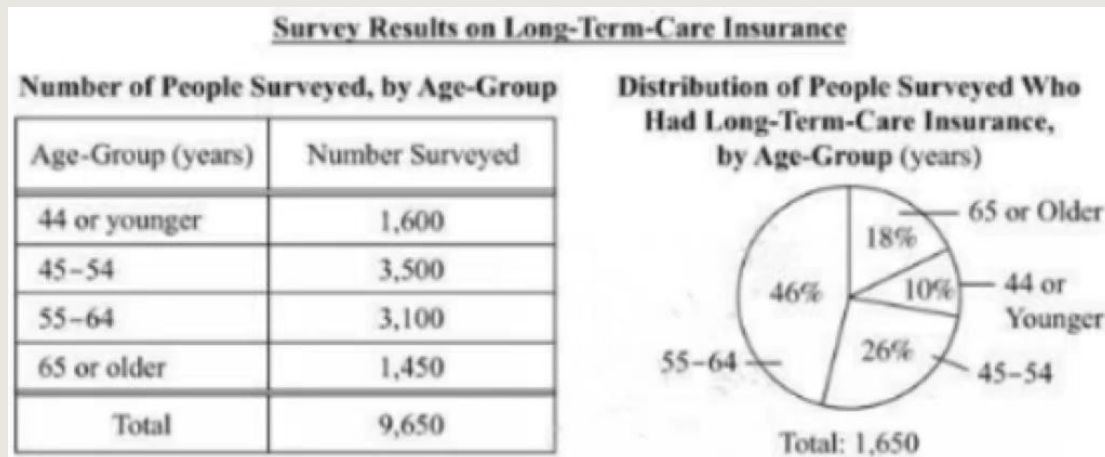
For what value of y is $\dfrac{1}{13}$ y equal to y-13?

A.-$\dfrac{13}{14}$

B. $\dfrac{13}{14}$

C. $\dfrac{13}{12}$

D. $\dfrac{169}{14}$

E. $\dfrac{169}{12}$

## Section1 Question13

If functions r and s are defined by r(x)=3x$^2$-2x and s(x)=x$^2$ for all numbers x, for what positive value of x does r(x)=s(x)?

## Questions 14 and 16 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)**

- 65 or Older: 18%
- 44 or Younger: 10%
- 45–54: 26%
- 55–64: 46%

Total: 1,650

## Section1 Question14

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?

A.580
B.640
C.725
D.870
E.967

## Section1 Question15

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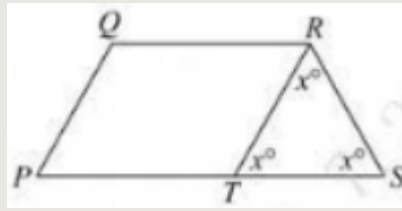
[ ]

## Section1 Question16

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?

A.4.4%
B.5.8%
C.7.5%
D.9.4%
E.12.3%

## Section1 Question17

In a biology class the range of the scores on a midterm exam was 70. If the highest score was 5 less than 4 times the lowest score, what was the highest score on the midterm exam?
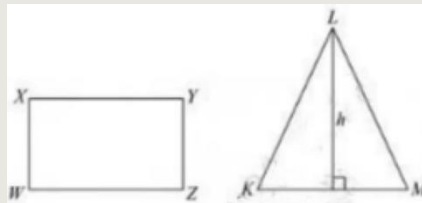
[ ]

**Section1 Question18**



In the figure, if the perimeter of parallelogram PQRT is 28 and the perimeter of trapezoid PQRS is 32, what is the perimeter of triangle TRS?

A.21
B.18
C.15
D.14
E.12

**Section1 Question19**



In the figures above, WZ= KM and the area of rectangular region WXYZ is equal to the area of triangular region KLM. If WX=6, then h=

A.12
B.9
C.8
D.6
E.3

**Section1 Question20**

In a certain harbor, a vertical dock post has the lower $\frac{3}{8}$ of its length in the ground and an additional $\frac{5}{16}$ of its length in the water. If the remaining length of the post extends 5 feet above the water, what is the length, in feet of the post?

A.15

B.$15\frac{3}{8}$

C.$15\frac{5}{8}$

D.16

E.$16\frac{1}{8}$

### Section2 Question1

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

Except for the special circumstance in which historians record events they themselves have witnessed, scholars can only obtain historical facts through_____sources.

| |
|---|
| A) biased |
| B) first-hand |
| C) written |
| D) unreliable |
| E) intermediary |

### Section2 Question2

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

Heresy and schism are not restricted to theologians: science also has its share of fields that are_____sectarianism.

| |
|---|
| A) resistant to |
| B) riven by |
| C) unified by |
| D) buttressed by |
| E) free of |

### 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.**

Taken together that ill-assorted pair, Johannes Itten and Walter Gropius, expressed how (i)_____the Bauhaus School's nature actually was. It was at once utopian and (ii)_____, intuitive and scientific, highly ordered and subversively anarchic.

| Blank (i) | Blank (ii) |
|---|---|
| A) rational | D) far-sighted |
| B) controversial | E) admirable |
| C) bifurcated | F) pragmatic |

### 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.**

Psychologists note that in making purchase decisions, consumers often unconsciously use mental shortcuts such as familiarity with a brand name, to (i)_____routine problems efficiently. Thus, part of what companies aim for in developing a brand is very specifically to (ii)_____consumers conscious thought.

| Blank (i) | Blank (ii) |
|---|---|
| A) identify | D) amplify |
| B) resolve | E) ascertain |
| C) postpone | F) circumvent |

**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.**

Books by business school professors can usually be counted on to give (i)_____view of technological innovation; this book (ii)_____that stereotype, arguing that the digital revolution will be comparable to the industrial revolution in its positive effects on long-run economic growth.

| Blank (i) | Blank (ii) |
|---|---|
| A) a cheerful | D) conforms to |
| B) a comprehensive | E) upends |
| C) an unorthodox | F) disregards |

**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.**

Ultimately the ethical implications of neuroscience may be (i)_____than those of genetics. The transformations of behavior possible by manipulating neurons are both more predictable and more thorough than what can be achieved by altering genes. Even if the ethical and practical constraints on genetic experimentation suddenly (ii)_____, we'd have to wait decades to see the outcome of such experiments. Altering the brain's functioning, by contrast, can produce startlingly (iii)_____results.

| Blank (i) | Blank (ii) | Blank (iii) |
|---|---|---|
| A) even more | D) solidified | G) unexpected |

| troubling | | |
|---|---|---|
| B) more difficult to understand | E) surfaced | H) rapid |
| C) much less interesting | F) vanished | I) far-reaching |

**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**

    In his recent book, Louis Gerteis argues that nineteenth-century Northern reformers in the United States attacked slavery in the South by invoking the values of a "utilitarian" political economy: proper public policy requires government to endorse anything that gives all people the opportunity to maximize their individual pleasure and their material gain Social good according to this thinking, is achieved when individuals are free to

pursue their self-interests. Gerteis argues that since slavery in the South precluded individual autonomy and the free pursuit of material gain, major Northern reformers opposed it as early as the 1830s.

In making this argument Gerteis offers the most persuasive formulation to date of the "Growth of a Dissenting Minority" interpretation which argues that a slow but steady evolution of a broad-based Northern antislavery coalition culminated in the presidential victory of the antislavery Lincoln in 1860. This interpretive framework, which once dominated antislavery historiography, had been discounted by historians for two basic reasons. First, it tended to homogenize the political diversity of Northern reformers; Northern reformers differed significantly among themselves and belonged to diverse political parties. Second, it seemed incompatible with **emerging scholarship** on the slaveholding South which held that Northern abolitionists of the 1830s did not succeed in mobilizing Northern public opinion and paving the way for Lincoln in 1860. Instead Southern slaveholders misconstrued abolitionist views of the 1830s as mainstream rather than marginal Northern public opinion, and castigated Northerners generally for opposing slavery. In this view it was the castigation by Southerners that gradually caused widespread antislavery feeling throughout the North.

Gerteis revives the "Growth" interpretation by asserting that rather than Southern attitudes, the unified commitment of Northern reformers to utilitarian values served to galvanize popular political support for abolitionism. However, unlike earlier proponents of the "Growth" interpretation Gerteis does not reduce the Northern reformers to a homogeneous group or try to argue that the reformers' shared views undermined their differing party loyalties. Members of the two major political parties still attacked each other for ideological differences. Nevertheless, Gerteis argues these disparate party affiliations did not diminish the actuality of reformer unity, most prominent in the 1830s. At this time, Northern reformers, such as William Loyd Garrison and Samuel Chase. portrayed the framers of the United States Constitution as proponents of individual autonomy and capitalist values. This vision of the founders served as a basis for asserting that freedom was a national moral imperative, and that the United States Constitution was an antislavery document Gerteis differs from traditional adherents of the "Growth" framework by asserting that the basic elements in the antislavery coalition were firmly in place and accepted by all elements in the Northern reform community as early as the late 1830s.

### Section2 Question9
The author would be most likely to agree with which of the following about Gerteis' formulation of the "Growth" interpretation?

A.It is too similar to the traditional version off the "Growth" interpretation.
B.It is of dubious validity and does not expand research on the antislavery movement.
C.It is strongly supported by recent research on the nineteenth-century South.
D.It is more convincing than the traditional version of the "Growth" interpretation.
E.It is seminal work that will be highly influential on future research.

## Section2 Question10

The passage supports which of the following statements about the "Growth" interpretation?

A.It had been dismissed by earlier historians but has recently come to dominate antislavery historiography
B.It has recently received support from emerging scholarship on the nineteenth-century South.
C.It was once very influential in antislavery historiography and has recently been reformulated.
D.It has always been highly controversial and is still widely debated by historians.
E.It has recently been discounted by emerging scholarship on utilitarian values in the nineteenth-century South.

## Section2 Question11

Which of the following, if true, would provide the LEAST support for Gerteis' arguments as they are discussed in the passage?

A.In the 1870s, following the abolition of slavery many Northerners remained unified in their desire to see an effective free-labor system implemented in the South.
B.As early as the 1830s, Northern abolitionists and Northern reformers with a commitment to utilitarian values began to agree that the United States Constitution was an important antislavery document.
C.Many Northern reformers who disagreed about political policies argued that abolishing slavery should be a central goal of the United States government.
D.As early as 1836many Northern reformers argued that slavery destroyed individuals' ability to pursue their self-interests and thwarted the free pursuit of material gain.
E.Owing to their different party allegiances, Northern reformers who shared utilitarian values did not join together in important collective actions against slavery.

## Section2 Question12

The author of the passage mentions "emerging scholarship" most probably in order to

A.describe an argument that has been advanced to challenge the "Growth" interpretation
B.show how Gerteis has used recent research to support his formulation of the "Growth" interpretation
C.explain how the "Growth" interpretation was originally developed
D.discuss a theory about the nineteenth century North that is very similar to the "Growth" interpretation
E.suggest that the "Growth" interpretation is no longer discussed among historians

## 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.**

Although climate change is projected to increase precipitation for much of the United States, farmers are not_____: the shift will also lead to higher temperatures, increasing evaporation losses to the atmosphere.

A.livid
B.upbeat
C.naive
D.perplexed
E.gratified
F.stumped

## 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.**

For all the fanfare about the university's devoting resources to become a top-notch information technology school, its technological facilities are still_____.

A.embryonic
B.lauded
C.acclaimed
D.antiquated
E.constrained
F.undeveloped

## 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.**

One virtue of cornmeal as a component of the diets of laborers in early Puerto Rico was the mildness of its taste, a trait that enabled it to_____the strong flavors of other foods.

A.mimic

B.temper
C.camouflage
D.neutralize
E.complement
F.augment

## 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.**

Baker was struck by the amount of_____she saw at the renowned medical facility; for all their experience the physicians could not seem to agree on the correct diagnosis for any given patient.

A.discordance
B.contention
C.quackery
D.nepotism
E.indecision
F.cronyism

## Section2 Question17

The traditional color of fire trucks is red, but in cities that have introduced yellow trucks into their fleets, the rate of traffic accidents per mile driven among these trucks has been far lower than the rate among red trucks. Some critics of the innovation have questioned whether **this difference should be attributed to color**, given that the yellow trucks were generally newer than the red trucks with which they were compared. But this criticism can be dismissed. Certainly, **the mere difference in accident rates is not decisive evidence.** The decisive fact is that the rates differed significantly only in the hours around dawn and dusk. At these hours, the visibility of yellow is known to be better than that of red.

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

A.The first is a statement of the position the argument as a whole opposes; the second is a statement of the position it defends.
B.The first is a claim that the argument as a whole calls into question; the second denies the rationale presented by some critics of that claim.
C.The first is a claim that the argument as a whole calls into question; the second points out an error of reasoning made by defenders of that claim.
D.The first is the position defended in the argument; the second is an intermediate

concusion drawn to support that position.
E.The first is the position defended in the argument; the second concedes a point to critics of that position.

## Questions 18 and 20 are based on this passage

Study of the Hebraic literature of ancient Palestine may eventually be furthered by recent discoveries of manuscripts at another ancient Middle Eastern site, Ugarit (in modern Syria)despite the fact that Ugarit was destroyed at around the time Hebraic culture was first emerging and despite the differences between the Ugaritic and Hebraic languages. Though their languages were closer to each other than to other Semitic languages, speakers of Ugaritic would probably not have understood speakers of Hebrew, and vice, versa. Yet the two cultures' respective literatures exhibit similarities, especially in their poetry, and particularly in their poems' structural patterns and rhetorical uses of repetition. These and other parallel poetic devices indicate that the two cultures shared a poetic heritage but scholars do not yet know how the devices came to be shared and to what extent they were traditional in each culture. Answering such questions will require the discovery of unimpeachably authentic **literary remains** from the five centuries that separate the Ugaritic and the Hebrew texts.

## Section2 Question18

It can be inferred that the author of the passage believes that the discovery of the "literary remains" might do which of the following?

A,Help to explain how Hebraic literature and Ugaritic literature came to share certain characteristics
B.Help to establish the date of the earliest Hebraic poems more accurately than has been possible in the past
C.Undermine a widely held hypothesis about the poetic heritage that links Ugaritic and Hebraic literatures
D.Cast doubt on the authenticity of some texts currently thought to be Ugaritic
E.Reveal further links among the Ugaritic and Hebraic languages and other Semitic languages

## Section2 Question19

Which of the following can be inferred from the passage regarding the literary texts discovered at Ugarit?

A.They are written primarily in verse.
B.They are of greater interest to linguists than to scholars of ancient literature.
C.Their implications for the study of Hebraic literature have not been fully determined.
D.Their authenticity cannot be determined until their relation to Hebraic texts is more fully understood.
E.They have revealed that Hebraic poetry was directly influenced by Ugaritic poetry

**Section2 Question20**

Information in the passage supports which of the following statements about Ugarit?

A.Ugarit is an isolated and difficult-to-excavate site.
B.Ugarit has only recently begun to be excavated and studied.
C.Ugarit was the site of a culture very similar to the Hebraic culture of ancient Palestine.
D.Ugarit flourished before the emergence of Hebraic culture.
E.Ugarit was home to poets writing in both Ugaritic and Hebrew.

## Section3 Question1

At a large orchard boxes of apples are packed continuously for 8 hours at a constant rate of 160 seconds per box.

|  Quantity A | Quantity B |
| --- | --- |
| The number of boxes of apples that are packed in 8 hours at this rate | 200 |

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

M and N are positive integers and M<N.

| Quantity A | Quantity B |
| --- | --- |
| M percent of N | N percent of M |

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

n is a negative integer.

| Quantity A | Quantity B |
| --- | --- |
| $3^{n+1}$ | $2(3^n)$ |

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 Question4

1, 2, 4, 8, 16, ...

The first five terms of an infinite sequence are shown above. Each term after the first term is 2 times the preceding term.

n is an odd integer greater than 50.

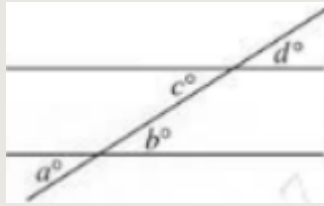| Quantity A | Quantity B |
| --- | --- |
| The average (arithmetic mean) of the first n terms of the sequence | The median of the first n terms of the sequence |

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



a＜d

| Quantity A | Quantity B |
|------------|------------|
| b-c | 0 |

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

$$a\neq-2b$$

| Quantity A | Quantity B |
|------------|------------|
| $\dfrac{(a+b)^2-b^2}{a+2b}$ | $a$ |

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

In the xy-plane, S is the set of all points (c, d) for which c and d are both integers.

| Quantity A | Quantity B |
|------------|------------|
| The number of points in S that are a distance of 2 units from the point (7, 5) | 4 |

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

$$3x+y=12$$

$$x + \frac{y}{3} = 4$$

| Quantity A | Quantity B |
|:---:|:---:|
| x | y |

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

The recorded heights, in inches of 9 people are 58, 62, 62, 62, 63, 70, 71, 74, and 75. Which of the following lists the mean the median and the mode of the recorded heights in order, from least to greatest?

A.Mean median, mode
B.Mean, mode, median
C.Median, mode, mean
D.Mode, mean, median
E.Mode, median, mean

## Section3 Question10

If the radius of circle S is 4 times the radius of circle T, then the circumference of S is how many times the circumference of T?

A.2
B.4
C.8
D.16
E.32

## Section3 Question11

In a distribution of 1,300 different positive numbers, 65.1 is at the 54th percentile and 63.8 is at the 48th percentile. Approximately how many of the numbers in the distribution are greater than 65.1?

A.460
B.540
C.600
D.650
E.700

## Section3 Question12

In the xy-plane, which of the following points is on the graph of the line that has slope 4 and x-intercept-2?

A.(-1, 2)
B.(-1, 4)
C.(1, 2)
D.(1, 4)
E.(2, 0)

## Section3 Question13

Each person in a group of nine people was asked how many movies the person saw last month. The numbers of movies seen last month by five people in the group are 1, 1, 0, 2, and 2, respectively. If the median of the numbers of movies seen last month by the other four people in the group is 3, what is greatest possible value of the median of the numbers of movies seen last month by all the people in the group?

| |
|---|

## Questions 14 and 16 are based on the following data

**Theater Revenues for Seven Movies**

| Movie | Number of Weeks Movie Has Been Released | Total Revenue (in millions) | Number of Theaters (first week released) | Average* Revenue per Theater (first week released) |
|---|---|---|---|---|
| A | 2 | $32.4 | 2,800 | $5,250 |
| B | 3 | $53.6 | 3,100 | $5,060 |
| C | 1 | $13.0 | 2,900 | $4,480 |
| D | 8 | $61.1 | 1,800 | $4,450 |
| E | 5 | $38.6 | 1,500 | $4,150 |
| F | 3 | $28.2 | 1,600 | $3,840 |
| G | 10 | $86.5 | 900 | $3,220 |

*arithmetic mean

## Section3 Question14

When Movie C has been released for 10 weeks, its producers expect it to have a total revenue equal to the total revenue of Movie G for the 10 weeks of its release. To meet this expectation approximately what must be the average (arithmetic mean) revenue per week of Movie C for the next 9 weeks of its release?

A.$7.35 million
B.$7.67 million
C.$8.17 million
D.$9.19 million
E.$9.61 million

### Section3 Question15

The total revenue for Movie F is approximately what percent less than the total revenue for Movie B?

A.25%
B.47%
C.53%
D.75%
E.90%

### Section3 Question16

For the revenue of Movie B in the first week it was released and the revenue of Movie E in the first week it was released, approximately what was the average revenue per theater for the two movies combined?

A.$4,447
B.$4,605
C.$4,622
D.$4,654
E.$4,763

### Section3 Question17

$$x, y, \frac{11}{7}, \frac{18}{11}, \frac{29}{18}, \ldots$$

In the sequence above, each term after the first term is 1 plus the reciprocal of the preceding term. What is the value of x?
Give your answer as a fraction.

### Section3 Question18

In a certain community, real estate is taxed at a rate of $0.73 er $100.00 of assessed value. At what percent of assessed value is real estate taxed in the community?

A.0.0073%
B.0.073%
C.0.73%
D.7.3%
E.73%

### Section3 Question19

If a≠0, which of the following pairs of points in the xy-plane lies on a line with a slope of 1?

A.(0, a) and (0, -a)
B.(a, -a) and (-a, a)
C.(a, 0) and (-a, 0)
D.(a, 0) and (0, -a)
E.(a, 0) and (0, a)

### Section3 Question20

Beth paid a total amount of $385.20 for a television and a cell phone. The total amount consisted of the price of each item plus a sales tax that was 7 percent of the price of each item.

Which of the following statements <u>individually</u> provide(s) sufficient additional information to determine the price of the television?

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

A.The sales tax on the cell phone was $10.50.
B.The price of the television was $60 greater than the price of the cell phone.
C.The price of the television was 40 percent greater than the price of the cell phone.

## Section4 Question1

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

The book is a determinedly apolitical writer's attempt to deal with an explosive subject and some readers will think it too_____; they will miss the impassioned engagement found in the works of her peers.

| |
|---|
| A) ambitious |
| B) candid |
| C) extreme |
| D) visceral |
| E) measured |

## Section4 Question2

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

Practical physics is usually unpredictable: a researcher will have (i)_____model of the way the experiment is meant to work, but when a device is first put together, the model is nearly always (ii)_____mundane effects.

| Blank (i) | Blank (ii) |
|---|---|
| A) an antiquated | D) confounded by |
| B) a questionable | E) consistent with |
| C) a notional | F) independent of |

## 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.**

The origin tales of the Native American Koasati people, which offer explanations of how the universe came into being, use two different strategies: some are direct, presenting an explanation that is central to the tale, while others are (i)_____in that the explanation is (ii)_____the tale.

| Blank (i) | Blank (ii) |
|---|---|
| A) oblique | D) incidental to |
| B) episodic | E) explicit in |
| C) veracious | F) dependent on |

23

### 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.**

Weeds lack the lethality of insects and microbes, which can strike farm crops seemingly out of nowhere and rapidly wipe them out. It is worth bearing in mind, however, that infestations of insects and disease are typically (i)_____events, whereas weeds are (ii)_____.

| Blank (i) | Blank (ii) |
|---|---|
| A) sporadic | D) resilient |
| B) devastating | E) controllable |
| C) intractable | F) ubiquitous |

### 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.**

Audiences for daytime television soap operas have declined by 83 percent since 1991. This is partly because televised courtroom dramas, which compete with soap operas, bring to the screen some of the same elements of family (i)_____that appeal to soap fans. And courtroom dramas have the added (ii)____that the domestic arguments they depict are for real.

| Blank (i) | Blank (ii) |
|---|---|
| A) succor | D) frisson |
| B) blandishment | E) annoyance |
| C) wrangling | F) constraint |

### Questions 6 and 7 are based on this passage

Kam-Biu Liu's examination of sediments from Western Lake, Florida on 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 than 1000 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 Question6

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 berelied on, given that it has produced an anomalous result?

## Section4 Question7

**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 3400 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 about 1,000 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 8 and 10 are based on this passage

In explaining his opposition to efforts aimed at stabilizing moose populations and at suppressing fires in northern forests, Pastor points out that moose, by feeding on hardwood trees, contribute to a characteristic process whereby hardwood trees are eventually overtaken and shaded out as conifers such as spruces block sunlight A decline in hardwood trees leads to fewer nitrogen-rich, quick-rotting leaves on the forest floor which is increasingly carpeted with slower-rotting conifer needles. Hardwoods require more nitrogen for growth than do conifers, so the decline in soil fertility in areas where moose feed reinforces the advance of conifers. But conifers cannot dominate the forest for long, because mature conifer forests are more combustible than are hardwood forests. Fire combined with high winds, attacks of spruce budworm, or even a greatly diminished nitrogen supply will destroy expanses of spruces, allowing hardwoods to recolonize in the nutrient-rich ash. Such oscillations in forest composition and consequently in moose population are, Pastor believes, essential to the integrity and

functioning of northern forest ecosystems.

## Section4 Question8
The primary purpose of the passage is to

A.describe the potential dangers of a course of action
B.explain the reasoning behind a particular position
C.emphasize the fragility of a particular natural process
D.account for the survival of a particular ecosystem
E.advocate a particular type of intervention within an ecosystem

## Section4 Question9
The passage suggests which of the following about northern forests?

A.Their moose populations fluctuate as the proportion of hardwoods diminishes or increases.
B.Their moose populations have declined from previous levels in recent years.
C.Their forest floors are less fertile when they are dominated by hardwoods than when they are dominated by conifers.
D.Their forest floors have experienced a decrease in soil fertility due to a decrease in the number of fires.
E.They are recolonized by more conifers than hardwoods after a fire has occurred.

## Section4 Question10
The passage suggests which of the following about conifers?

A.They enrich the soil with nitrogen more than do hardwoods.
B.They are relatively long-lived compared with hardwoods.
C.They require nutrient-rich ash in order to recolonize.
D.They are adversely affected by increases in moose populations.
E.They are adversely affected by extremely low levels of nitrogen.

## Section4 Question11

**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.**

It is true that propagandists spout misinformation to serve their own ends, but if our minds were_____such garbage, the lies would die out quickly.

A.inhospitable to
B.amenable to

C.unreceptive to
D.unaffected by
E.distorted by
F.governable by

## 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.**

People may be generally aware that media technologies employ toxic substances but may be startled by the_____of the environmental harms involved: humans, animals, vegetation, soil, air, and water are all affected.

A.noxiousness
B.permanence
C.heterogeneity
D.amplitude
E.pervasiveness
F.ubiquity

## 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.**

Hamlin Garland has tried to appeal to a wider audience by moving away from the gritty realism of his early writings, which often advanced populist political causes, and toward _____mainstream fiction.

A.demanding
B.topical
C.anodyne
D.toothless
E.derivative
F.challenging

## 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_____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 Question15

Belnovia's government provides health care to all its citizens. Five years ago, with costs incurred from smoking-related health problems accounting for5 percent of annual government expenditures. Belnovia's health agency initiated a nationwide antismoking campaign. Although the campaign succeeded in reducing the number of smokers in Belnovia substantially, it clearly failed to reduce the annual costs incurred from smoking-related health problems, since these costs currently account for6 percent of annual government expenditures.

Which of the following is an assumption on which the argument depends?

A.Costs incurred from smoking-related health problems account for a greater portion of the Belnovian government's overall health expenditures now than they did five years ago.
B.The average cost of treatment for smoking-related health problems in Belnovia has not increased significantly over the past five years.
C.Overall health expenditures account for a greater portion of the Belnovian goverment's annual expenditures now than they did five years ago.
D.Belnovia's annual government expenditures are not significantly lower now than they were five years ago.
E.Smoking-related health problems usually persist long after a person has quit smoking.

## Questions 16 and 17 are based on this passage

At first glance, low voter turnout among women and the paucity of women officeholders during the 1920s seem to indicate that despite their efforts to obtain the vote, women in the United States were not overwhelmingly interested in politics. The **anticipated** "woman's bloc" never materialized at the polls suggesting to **several observers then and to some historians** since, that women did not relish enfranchisement. Disappointing voter turnout in the years following women's enfranchisement in 1920, however, should not be interpreted automatically as evidence

of women's indifference to political affairs or their reluctance to be political agitators. Nonpartisan nonelectoral arenas of political participation within the tradition of women's collective civic engagement, including educational and social reform activities, remained extremely important for newly enfranchised women.

## Section4 Question16

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

lit can be inferred that the author would <u>disagree</u> with the observers and historians mentioned in the highlighted portion of the passage regarding which of the following?

A.Whether women's low voter turnout after suffrage was an indication of their indifference to political affairs
B.Whether women traditionally preferred educational and social reform activities to collective political participation
C.Whether enfranchisement reduced the value that women placed on nonelectoral political activities

## Section4 Question17
In the context in which it appears, "anticipated" most nearly means

A.forestalled
B.approaching
C.preceding
D.expected
E.scheduled

## Questions 18 and 19 are based on this passage
Much of what researchers infer about the Early Preclassic period (2000-1000 B.C.E.) of the Olmec people derives from the study of monumental sculpture complemented by analogies to later Mesoamerican cultures, though not all scholars agree that **stone art** should guide interpretation or that it indicates greater sociopolitical complexity than in other societies. Indisputably, however only the Olmec designed, created transported, and utilized monumental sculpture in Early Preclassic Mesoamerica, which not only constitutes an important defining characteristic of their society but also reflects their unique inclination toward intense labor mobilizations. For this reason alone sculpture should and does figure prominently in Olmec studies, just as the scale,frequency, and design of monumental architecture is used as a diachronic material measure of sociopolitical development throughout Mesoamerica.

## Section4 Question18

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

The passage suggests which of the fallowing about "stone art"?

A.It no longer figures as prominently in Olmec studies as it did at one time.

B.It interests researchers in part because of its influence on the art of non-Olmec Mesoamerican cultures.

C.It constitutes the basis for some scholars' views about the relative sociopolitical complexity of Olmec society

**Section4 Question19**

The author would most likely agree with which of the following claims about Olmec monumental sculpture?

A.It was likely produced by teams of assistant artisans carrying out a master sculptor's design.

B.It probably reflected a wider range of subject matter than can be inferred from surviving examples

C.It should not be given as much prominence in research on the Olmec as certain other types of archaeological evidence.

D.It was not influenced by monumental sculpture produced by any other Mesoamerican cultures.

E.It has given rise to a somewhat narrower range of interpretations by researchers than it should have.

### Section5 Question1

$$x^{10}=y^{10}$$

| Quantity A | Quantity B |
|:---:|:---:|
| x | y |

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

Of all travelers on a certain airline last year, 57 percent were business travelers. Of these business travelers, 70 percent carried a laptop computer.

| Quantity A | Quantity B |
|:---:|:---:|
| The percent of all travelers on the airline last year that carried a laptop computer | 42% |

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

In the xy-plane, circle C is centered at (0, 3) and passes through the point (2, 0).

| Quantity A | Quantity B |
|:---:|:---:|
| The area of circle C | $13\pi$ |

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

$$|2x+7|＜13$$

| Quantity A | Quantity B |
|:---:|:---:|
| $x^2$ | 9 |

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

Set S contains between 80 and 90 elements.

| Quantity A | Quantity B |
|---|---|
| The number of subsets of S that contain 50 elements | The number of subsets of S that contain 60 elements |

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

One of the solutions of the equation $x^2+bx+c=0$ is -3.

| Quantity A | Quantity B |
|---|---|
| 3b | c+9 |

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

A certain sequence is defined by $a_1=3$ and $a_n=3(a_{n-1})^2$ for all integers $n \geq 2$.

| Quantity A | Quantity B |
|---|---|
| $a_5$ | $3^{30}$ |

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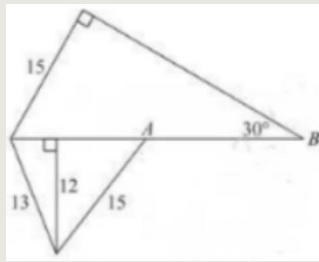D.The relationship cannot be determined from the information given.

### Section5 Question8

If x+y=1 and $xy \neq 0$, then $\dfrac{1}{x}+\dfrac{1}{y}=$

A.1
B.$\dfrac{x}{y}$
C.$\dfrac{y}{x}$
D.xy
E.$\dfrac{1}{xy}$

## Section5 Question9



In the figure above what is the length of AB?

A.15
B.16
C.17
D.18
E.19

## Section5 Question10

If an integer greater than 100 and less than 1,000 is to be selected at random what is the probability that the integer selected will be a multiple of 7?

A. $\dfrac{142}{999}$

B. $\dfrac{142}{900}$

C. $\dfrac{142}{899}$

D. $\dfrac{128}{900}$

E. $\dfrac{128}{899}$

## Section5 Question11

By draining 40 gallons of water from a tank, the amount of water in the tank was decreased from $\dfrac{1}{5}$ of the tank's full capacity to $\dfrac{2}{11}$ of the tank's full capacity. Water was then added to the tank until the tank was full. How many gallons of water were added to the tank?

A.1,800
B.2,000
C.2,200
D.2,400

E.2,600

## Section5 Question12

The average (arithmetic mean) of 6 measurements is n. When a statistician discards one of the measurements, the average of the remaining measurements is n-2. What is the value of the discarded measurement, in terms of n?

A.n+10
B.n+6
C.n
D.n-2
E.n-5

## Section5 Question13

A wall in a museum is covered by 60 flat rectangular panels. If the dimensions of each panel are 4 feet by 7.5 feet, what is the total area, in square yards, of the panels? (Note: 1 yard =3 feet.)

A.200
B.600
C.1,800
D.5,400
E.16,200

## Questions 14 and 16 are based on the following data

**Population of Nine States of the United States in 2000**

| State | Percent Increase in Population from 1990 to 2000 | Population in 2000 (thousands) |
|---|---|---|
| Connecticut | 3.6% | 3,406 |
| Maine | 3.8% | 1,275 |
| Massachusetts | 5.5% | 6,349 |
| New Hampshire | 11.4% | 1,236 |
| New Jersey | 8.9% | 8,414 |
| New York | 5.5% | 18,976 |
| Pennsylvania | 3.4% | 12,281 |
| Rhode Island | 4.5% | 1,048 |
| Vermont | 8.2% | 609 |
| | | Total: 53,594 |

## Section5 Question14

In 1990, the population of New Jersey was approximately what percent of the population of Pennsylvania?

A.45%

B.50%
C.55%
D.60%
E.65%

## Section5 Question15

For the state that had the median population of the nine states in 1990, approximately what was the increase in the population from 1990 to 2000?

A.118,000
B.126,000
C.218,000
D.332,000
E.404,000

## Section5 Question16

The population of Connecticut and the population of New Hampshire increased by 5.0 percent and 6.7 percent, respectively, from 2000 to 2010. Which of the following is closest to the percent increase in the total population of the two states from 1990 to 2010?

A.11.3%
B.11.7%
C.12.8%
D.13.2%
E.13.8%

## Section5 Question17

$$2, 8\ 12, 16, 30, x, y$$

In the list shown, x and y are numbers and the seven numbers are listed in increasing order. For the seven numbers, the average (arithmetic mean) is 5 greater than the median. If the difference between x and y is 3, what is the range of the seven numbers?

## Section5 Question18

Which of the following is most nearly equal to $\dfrac{2.5\times10^6}{2.5\times10^6-3.5\times10^6}$?

A.$-2.5\times10^6$
B.$-3.5\times10^6$
C.$2.5\times10^6$
D.$-1$

E.1

## Section5 Question19

Which of the following integers are factors of $\dfrac{9!}{(6!)(3!)}$

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

A.2
B.3
C.4
D.5
E.6
F.7
G.8
H.9

## Section5 Question20

In the xy-plane, circle C has radius 4 and is centered at the origin, and parabola P has the equation $y = -\left(\dfrac{x}{2}\right)^2 + 4$. Which of the following points are on both circle C and parabola P?

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

A.(4, 0)
B.(-4, 0)
C.(0, 4)
D.(0, -4)

# 答案领取方式

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