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## Cracking the



# 2017 Edition 

The Staff of The Princeton Review

PrincetonReview.com

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## Contents

Register Your Book Online! ..... vi
Part I: Orientation ..... 1
1 Introduction ..... 3
2 General Strategy ..... 19
Part II: How to Crack the Verbal Section ..... 29
3 The Geography of the Verbal Section ..... 31
4 Text Completions ..... 43
5 Sentence Equivalence ..... 67
6 Reading Comprehension ..... 79
7 Critical Reasoning ..... 109
8 Vocabulary for the GRE ..... 139
Part III: How to Crack the Math Section ..... 161
9 The Geography of the Math Section ..... 163
10 Math Fundamentals ..... 177
11 Algebra (And When to Use It) ..... 205
12 Real World Math ..... 245
13 Geometry ..... 273
14 Math Et Cetera ..... 307
Part IV: How to Crack the Analytical Writing Section ..... 333
15 The Geography of the Analytical Writing Section ..... 335
16 The Issue Essay ..... 345
17 The Argument Essay ..... 369
Part V: Answers and Explanations to Drills and Practice Sets ..... 383
Part VI: Practice Tests ..... 411
18 Practice Test 1 ..... 415
19 Practice Test 1: Answers and Explanations ..... 445
20 Practice Test 2 ..... 461
21 Practice Test 2: Answers and Explanations ..... 485
Appendix: Accommodated Testing ..... 501

## 5

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- Math Workout for the GRE, 3rd Edition
- 1,007 GRE Practice Questions, 4th Edition
- GRE Power Vocab
- Crash Course for the GRE, 5th Edition

Look For These Icons Throughout The Book

## The Princeton Review

## 3

## Chapter 1 Introduction

What is the GRE? Who makes the test? What's a good score? The answer to these questions and many others lie within this chapter. In the next few pages, we'll give you the lowdown on the things you need to know about the GRE.

## CRACKING THE GRE

For a lot of people, taking a standardized test such as the GRE usually engenders a number of emotions-none of them positive. But here's the good news: The Princeton Review is going to make this whole ordeal a lot easier for you. We'll give you the information you will need to do well on the GRE, including our time-tested strategies and techniques.

A few years back, the GRE was rather significantly revised. This "new" version of the test supposedly allows graduate schools to get a better sense of an applicant's ability to work in a post-graduate setting-a goal that is unrealistic indeed, considering that the people who take the GRE are applying to programs as diverse as physics and anthropology.
Strategies Galore In this book you'll find The Princeton Review's trusted test-taking strategies to help you crack the GRE.

However, it's safe to say that neither GRE-new or old-is a realistic measure of how well you'll do in grad school, or even how intelligent you are. In fact, the GRE provides a valid assessment of only one thing:

The GRE assesses how well you take the GRE.

Got it? Even so, you still want to do well on the GRE, because you want grad schools to take you seriously when they consider your application. With this in mind, you should cultivate several very important skills when you're preparing for the test; each of them is attainable with the right guidance (which we'll give you), a strong work ethic (which you must provide), and a healthy dose of optimism. Who knows? Maybe after working through this book and learning how to crack the test, you'll actually look forward to taking the GRE.

So what exactly is this test you've heard so much about?

## WHAT IS THE GRE?

The Graduate Record Examination (GRE) is a 3-hour, 45 -minute exam that's used to rank applicants for graduate schools. The scored portion of the GRE consists of the following sections:

- One 30-minute Analysis of an Issue essay
- One 30-minute Analysis of an Argument essay
- Two 30-minute Verbal Reasoning sections
- Two 35-minute Quantitative Reasoning sections

The Verbal Reasoning sections test your skills on three different types of questions:

- Text Completion
- Sentence Equivalence
- Reading Comprehension

The Quantitative Reasoning sections measure your prowess in four areas:

- Arithmetic and Number Properties
- Algebra
- Geometry
- Data Analysis


## WHY DO SCHOOLS REQUIRE IT?

Even though you will pay ETS $\$ 205$ to take the GRE, it is important to note that you are not their primary customer. Their primary customers are the admissions offices at graduate programs across the United States. ETS provides admissions professionals with two important services. The first is a number, your GRE score. Everyone who takes the test gets a number. It is difficult for admissions committees to make a decision between a candidate with a 3.0 and a 3.2 GPA from drastically different schools and in two different majors. A GRE score, on the other hand, provides a quick and easy way for busy admissions offices to whittle a large applicant pool down to size.

Applicants could come from all over the world and will certainly have an enormous range in academic and professional experience. How does one compare a senior in college with a 32 -year-old professional who has been out of college working in a different industry for the past 10 years? A GRE score is the only part of the application that allows for an apples-to-apples comparison among all applicants.

The second service that ETS provides is mailing lists. That's right; they will sell your name. You can opt out, but when you sit down to take the test, ETS will ask you a whole bunch of questions about your educational experience, family background, race, and gender, as well as other biographical data. All of this information goes into their database. In fact, ETS is one of the most important sources of potential applicants that many graduate programs have.

Another reason for the GRE is that it ensures that most applicants to graduate school are qualified. It helps to weed out the people who might be considering grad school, but who can't get their act together enough to fill out applications. When you ask a program how important the GRE score is to the application, they may say, "it depends" or "not very" and that may be true as long as your score is in the top half. If your score is in the bottom half, however, it may mean that your application never gets seen.

So the GRE may have little relevance to any particular field of study you might be pursuing, but as long as it helps graduate programs uncover potential candidates, and as long as it is the only tool available to compare a diverse candidate pool, the GRE is here to stay.

## WHO IS ETS?

Like most standardized tests in this country, the GRE is created and administered by Educational Testing Service (ETS), a private company located in New Jersey. ETS publishes the GRE under the sponsorship of the Graduate Record Examinations Board, which is an organization affiliated with the Association of Graduate Schools and the Council of Graduate Schools in the United States.

ETS is also the organization that brings you the SAT, the Test of English as a Foreign Language (TOEFL), the National Teacher Examination (NTE), and licensing and certification exams in dozens of fields, including hair styling, plumbing, and golf.

## What to Take to the Test Center:

1. Your registration ticket
2. A photo ID and one other form of ID
3. A snack

## TEST DAY

The GRE is administered at Prometric testing centers. This company specializes in administering tests on computer. They administer citizenship exams, professional health certifications, dental exams, accounting exams, and hundreds of other exams on computer. As professional proctors, they are a particularly humorless lot. When you arrive at the center, they will check your ID, give you a clipboard with a form to fill out, and hand you a locker key. Despite the fact that they already have your information, you will be asked to fill out a long form on paper. This form includes an entire paragraph that you have to copy over-in cursive (they specify this)—that states that you are who you say you are and that you are taking the test for admissions purposes. This process will take you about 10 minutes, and you can
complete it while you wait for them to call you into the testing room. The locker is for all of your personal belongings, including books, bags, phones, bulky sweaters, and even watches. You are not allowed to take anything with you into the testing room.

When they call you into the testing room, they will first take a photo of you and, in some cases, fingerprint you before you go in. They will give you six sheets of scratch paper, stapled together to form a booklet, and two sharpened pencils with erasers. Then they lead you into the room where someone will start your test for you. The room itself will hold three or four rows of standard corporate cubicles, each with a monitor and keyboard. There will be other people in the room taking tests other than the GRE. Because people will be entering and exiting the room at different times, you will be provided with optional headphones.

## Test Day Tips

- Dress in layers, so that you'll be comfortable regardless of whether the room is cool or warm.
- Don't bother to take a calculator; you're not allowed to use your own-just the one on the screen.
- Be sure to have breakfast, or lunch, depending on when your test is scheduled (but don't eat anything weird). Take it easy on the liquids and the caffeine.
- Do a few GRE practice problems beforehand to warm up your brain. Don't try to tackle difficult new questions, but go through a few questions that you've done before to help you review the problem-solving strategies for each section of the GRE. This will also help you put on your "game-face" and get you into test mode.
- Make sure to take photo identification to the test center. Acceptable forms of identification include your driver's license, photo-bearing employee ID cards, and valid passports.
- If you registered by mail, you must also take the authorization voucher sent to you by ETS.
- Stretch, drink some water, go to the bathroom, and do whatever you need to do in order to be prepared to sit for this four-hour test.


## TEST STRUCTURE

While your test structure may vary, you should expect to see something like this when you sit down to take the exam:

The first section of the test collects all of your biographical information. If you fill this out, you will start getting mail from programs that have bought your name from ETS. In general, this is not a bad thing. If you don't want them to sell your name, or you don't want to spend the time answering their questions, you can click on a box that tells ETS not to share your information.

Once all of that is done, you will begin your first scored section, the essays. Your two essays will be back to back. You have 30 minutes for each essay. Immediately after your second essay, you will get your first multiple-choice section. It may be math or verbal. You will have a 1 -minute break between sections. Here is the structure of the test:


More Online
For tons of information about the GRE, check out PrincetonReview.com/ grad/gre-information

## A Note on the

Paper-Based GRE
The computer-delivered
GRE is the standard format for test takers. The paper-based GRE is far more rare and only offered up to three times a year.
But if you want to learn more about the paper-andpencil test, visit ETS.org.

| Section | Time | \# of Questions |
| :--- | :--- | :--- |
| Biographical Information | $+/-10$ minutes | - |
| Issue Essay | 30 minutes | 1 |
| Argument Essay | 30 minutes | 1 |
| Section 1 | 30 or 35 minutes | 20 |
| Section 2 | 30 or 35 minutes | 20 |
| Break | 10 minutes | - |
| Section 3 | 30 or 35 minutes | 20 |
| Section 4 | 30 or 35 minutes | 20 |
| Section 5 | 30 or 35 minutes | 20 |
| Possible Research Section | Optional | Depends |
| Select Schools/Programs | 5 minutes | Up to 4 |
| Accept Scores | 1 minute | - |
| Receive Scores | 1 minute | - |

Here are some things to keep in mind:

- You will see five multiple-choice sections, but only four will count. The fifth is an "experimental" section. It can come at any time after the essays. At the end of the exam, you will know, based on the number of math or verbal sections, if the experimental section was math or verbal, but you will not know which section will not count toward your score.
- Math sections are 35 minutes. There are 20 math questions in each section. If your experimental section is math, your test will be five minutes longer than someone whose experimental section is verbal.
- Verbal sections are 30 minutes. There are 20 verbal questions in each section.
- For the computer-delivered test, the optional 10 -minute break comes after the second multiple-choice section. For the paper-based test, the 10 -minute break comes after the second Analytical Writing section.
- You may or may not get a research section. If you do, it will come last; it does not count toward your score, and it is optional.
- You must accept your scores and, if you choose, send your scores to selected programs prior to seeing your scores.
- If you choose not to accept your scores, neither you nor any program will ever see them.
- You may choose to send your scores to up to four graduate programs on the day of the test. This service is included in your testing fee.


## The Experimental Section

When most companies want to test a new product, they provide free samples, test it on animals, or pay for some user testing. Not ETS. ETS uses you as a guinea pig to test out new questions that they will later inflict on other test takers. You pay them to do their research and development, and you do it when you are at your most stressed. Thanks, ETS!

## Research Section

At the end of the test, you may also have an unscored research section. At the beginning of this section, you will be told that it is an unscored research section, and that it will be used only to help develop and test questions for the GRE. If you want to skip it, you have the option of skipping it. You may be offered some sort of prize to induce you to take it, but by that point in the test you will probably be exhausted. If you're offered a research section, just go ahead and decline, get your scores, and go home.

## The 10-Minute Break

You are given 1 minute between sections except for the second multiple-choice section, when you get a 10 -minute break. Go to the bathroom, splash water on your face, wave your arms around. You want to re-oxygenate your brain. The goal, as much as it is possible, is to hit your brain's reset button. When you sit back down for the third multiple-choice section, you want it to be as if you are just sitting down at that computer for the first time that day. Your GRE test day is going to be a long and intense day, so be sure to take full advatage of break time.

## Accepting Your Scores

Before you see your scores, you will be given the opportunity to cancel your scores. There are very few reasons to do so. First, if you cancel your scores, you will never see your scores and you will have to go through the whole experience again, including paying an additional $\$ 205$ to take the test again. Second, GRE scores are curved. Most people believe that they are doing worse while taking the test than they actually are. Third, you can make use of the GRE ScoreSelect ${ }^{\circ}$ service.


Practice Like You Play
When tackling practice tests during your test preparation, be sure to mimic the real GRE and give yourself these timed breaks just like the real thing.

## ScoreSelect ${ }^{\circledR}$

ScoreSelect ${ }^{\bullet}$ allows you to select which scores get sent to which schools. Options for sending scores depend on whether you are sending scores on the day of your test or after your test day. On test day, you have the following options for sending scores:

- Most recent. This option sends the results of the test you just took.
- All. This option sends all your scores from the last five years.

If you send your scores to schools after test day, you have even more options. After test day, your options are:

- Most recent. This option sends the scores from the test you took most recently.
- All. As above, this option sends all your GRE scores from the last five years.
- Any. Send just the scores you want to send. You can send one score or multiple scores. For example, if you have taken the GRE three times and your second score is your best, you can send just that score.

When you use ScoreSelect ${ }^{\circ}$ after your test day, the score report that is sent to schools shows only the scores that you choose to send. The report does not indicate how many times you have taken the GRE nor does it indicate which that you have sent, for example, the second of three scores on record.

ScoreSelect ${ }^{\bullet}$ is another reason to think twice before cancelling your scores. Provided that you send your scores after your test date, your schools will never know that you didn't do as well as you would have liked or even that you took the test more than once if you don't want them to know.

## Sending Additional Score Reports

On the day of your test, you can send your scores to up to four schools using the ScoreSelect ${ }^{\bullet}$ test day options. These score reports are included as part of the $\$ 205$ fee that you pay to take the GRE. If you wish to send reports to additional schools, you'll need to request that these additional reports be sent after your test day. Each additional report costs $\$ 27$. The fastest way to send additional score reports is to order them online using your My $G R E^{\bullet}$ account that you create when you register to take the test.

## WHAT DOES A GRE SCORE LOOK LIKE?

Every GRE score has two components: a scaled score and a percentile rank. GRE scores fall on a $130-170$ point scale. However, your percentile rank is more important than your scaled score. Your percentile rank indicates how your GRE scores compare to those of other test takers. For example, a scaled score of 150 on the GRE translates to roughly the 43rd percentile, meaning that you scored better than 43 out of every 100 test takers-and worse than the other 57 percent of test takers. A score of 152 is about average, while scores of 163 and above are very competitive. Get the latest reported scores and percentiles at PrincetonReview.com and at www.ets.org/gre, the official ETS website for the GRE.

The essays are scored a little differently than are the Verbal and Quantitative sections. All essays receive a scaled score of $0-6$, in half-point increments. The corresponding percentiles are as follows:

| Score | Analytical Writing Percentile |
| :---: | :---: |
| 6.0 | 99 |
| 5.5 | 97 |
| 5.0 | 93 |
| 4.5 | 78 |
| 4.0 | 54 |
| 3.5 | 35 |
| 3.0 | 14 |
| 2.5 | 6 |
| 2.0 | 2 |
| 1.5 | 1 |
| 1.0 | $<1$ |

In other words, a score of 5 on the essay portion of the GRE means you performed better than 93 percent of test takers.

## How Much Does the GRE Matter?

Some programs consider the GRE very important, while others view it as more of a formality. Because the GRE is used for such a wide range of graduate studies, the relative weight it is given will vary from field to field and from school to school. A master's program in English literature will not evaluate the GRE the same way as a PhD program in physics, but it's hard to predict what the exact differences will be. A physics department may care more about the Math score than the Verbal score, but given that nearly all of its applicants will probably have high Math scores, a strong Verbal score might make you stand out and help you gain admission.

Grad School Info
Our Princeton Review homepage has tons of informational articles about graduate school. Head over to PrincetonReview.com/ grad-school-advice and check them out!

## SECTION 5: VERBAL REASONING

## 14 of 20

The Mayan pyramid of Kukulkan is more than just $\qquad$ edifice; this imposing structure was built to create a chirping echo whenever people clap their hands on the staircase. This echo sounds just like the chirp of the Quetzal, a bird which is sacred in the Mayan culture.a venerablea humblea beguilingan augusta speciousa prosaic

15 of 20
Some wealthy city-dwellers become enchanted with the prospect of trading their hectic schedules for a bucolic life in the countryside, and they buy property with a pleasant view of farmland-only to find the stench of the livestock so $\qquad$ that they move back to the city.

## bovine

pastoralnoisomeatavisticolfactorymephiticFor each of Questions 16 to 20, select one answer choice unless otherwise instructed.
Questions 16 through 18 are based on the following reading passage.

Often the most influential developments initially appear to be of minor significance. Consider the development of the basic stirrup for example. Without stirrups horse and rider are, in terms of force, separate entities; lances can be used from horseback, but only by throwing or stabbing, and mounted warriors gain only height and mobility. In medieval times, a lance couched under the rider's arm, unifying the force of rider and weapon, would throw its wielder backwards off the horse at impact. Stirrups unify lance, rider, and horse into a force capable of unprecedented violence. This development left unusually clear archaeological markers: With lethality assured, lances evolved barbs meant to slow progress after impact, lest the weight of body pull rider from horse. The change presaged the dominance of mounted combat, and increasingly expensive equipment destroyed the venerable ideal of freeman warriors. New technology demanded military aristocracy, and chivalric culture bore its marks for a millennium.

## 16 of 20

The primary purpose of the passage is todiscuss the influence of a recent archeological discoveryexplore the societal significance of a technological innovationassess the state of research in a given fieldlament the destruction of certain social idealsexplicate the physics of combat artillery

## SECTION 5: VERBAL REASONING

## 17 of 20

It can be inferred from the passage that the author believes which of the following about innovations in military technology?Their study merits additional research.They had more lasting influence than did those of the ancient world.Most of them had equally far-reaching repercussions.Prior to their application, the military value of horses was considered insignificant.

Many of them are archaeologically ambiguous.

## 18 of 20

Select the sentence in the passage in which the author cites the physical effects of a technological innovation being discussed as an example of a previous generalization.

Questions 19 through 20 are based on the following reading passage.

Few mathematical constructs seem as conceptually simple as that of randomness. According to the traditional definition, a number is random if it is chosen purely as the result of a probabilistic mechanism such as the roll of a fair die. In their groundbreaking work regarding complexity and the limitations of formal systems, mathematicians Gregory Chaitin and A.N. Kolmogorov force us to consider this last claim more closely.

Consider two possible outcomes of throwing a fair die three times: first, 1,6 , and 2 ; second 3 , 3 , and 3 . Now let us construct two three-member sets based on the results. Though the first set-$\{1,6,2\}$-intuitively seems more random than the second- $\{3,3,3\}$, they are each as likely to occur, and thus according to the accepted definition, must be considered equally random. This unwelcome result prompts Chaitin and Kolmogorov to suggest the need for a new standard of randomness, one that relies on the internal coherence of the set as opposed to its origin.

19 of 20
Which of the following best describes the organization of the passage as whole?

A concept is introduced; a traditional definition is put forward; a thought experiment is described; a new definition is proposed; the traditional definition is amended as a result.
$\bigcirc$ A concept is introduced; a traditional definition is supported by authorities; a thought experiment is described; the implications of the experiment are discussed.

A concept is introduced; a traditional definition is considered and rejected; a thought experiment is described; a new definition is proposed.
A concept is introduced; a traditional definition is called into question; a thought experiment is described; the implications of the experiment are discussed.

O A concept is introduced; authorities are called in to reevaluate a definition; a thought experiment is described; the implications of the experiment are considered and rejected.

## 20 of 20

Consider each of the choices separately and select all that apply.
Which of the following is an inference made in the passage above?

The results of the same probabilistic mechanism will each be as likely as the other to occur.

According to the traditional definition of randomness, two numbers should be considered equally random if they result from the same probabilistic mechanism.
Different probabilistic mechanisms are likely to result in similar outcomes.

## SECTION 6: QUANTITATIVE REASONING

For each of Questions 1 to 7, compare Quantity A and Quantity $B$, using additional information centered above the two quantities if such information is given. Select one of the following four answer choices and fill in the corresponding circle to the right of the question.
(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.
A symbol that appears more than once in a question has the same meaning throughout the question.

1 of 20

$$
\begin{aligned}
& \frac{x}{6}+2=\frac{6}{2} \\
& \frac{y}{3}+2=\frac{9}{3}
\end{aligned}
$$

Quantity B

$$
\frac{(y-1)}{x}
$$

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

3 of 20

The height of a rectangular 3D figure is increased by $p$ percent, its depth is decreased by $p$ percent and its width is unchanged.

## Quantity $\mathbf{A}$

The volume of the new
3D figure if $p=20$
$\bigcirc$ Quantity A is greater.
$\bigcirc$ Quantity B is greater.
The two quantities are equal.
$\bigcirc$ The relationship cannot be determined from the information given.

4 of 20

$$
\text { In } \triangle A B C, A B=A C
$$

## Quantity $\mathbf{A}$

The sum of the degree measures of angle $B$ and angle $C$
$\bigcirc$ Quantity A is greater.
$\bigcirc$ Quantity B is greater.
$\bigcirc$ The two quantities are equal.
$\bigcirc$ The relationship cannot be determined from the information given.

5 of 20

## Quantity A

The distance that Bob drives in 3 hours at an average speed of 44 miles per hour

Quantity B
The distance that Inez drives in 2 hours and 30 minutes at an average speed of 50 miles per hour

Quantity A is greater.
O Quantity B is greater.
O The two quantities are equal.
$\bigcirc$ The relationship cannot be determined from the information given.
12.5 percent of $k$ is 80 . $k$ is $y$ percent of 80 .

Quantity $\mathbf{A}$
$y$

## Quantity B

650
$\bigcirc$ Quantity A is greater.
$\bigcirc$ Quantity B is greater.
$\bigcirc$ The two quantities are equal.
The relationship cannot be determined from the information given.

## SECTION 6: OUANTITATIVE REASONING

Set $P=\{a, b, c, d, e, f, g\}$
Set $Q=\{a, b, c, d, e, f\}$
$a, b, c, d, e, f$, and $g$ are distinct integers

## Quantity $A$

## Quantity B

Range of Set $P$
Range of Set $Q$

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

7 of 20

Series $F$ is defined as $F_{n}=F_{(n-1)}+3$ and $F_{1}=10$.

> Quantity A
> The sum of $F_{4}$ through $F_{10}$

## Quantity B

The sum of $F_{6}$ through $F_{11}$

9 of 20
The average (arithmetic mean) of $a$ and $b$ is 10 , and the average of $c$ and $d$ is 7 . If the average of $a, b$, and $c$ is 8 , what is the value of $d$ ?
$\square$
Click on the answer box and type in a number. Backspace to erase.

10 of 20
In the coordinate plane, square $A B C D$ has vertices at $A(3,7), B(3,12), C(8, x), D(8, y)$. What is the area of $A B C D$ ?

○ 16
○ 20
○ 25
○ 30
○ 36

11 of 20

| Houses Sold in July |  |  |
| :---: | :---: | :---: |
| Week | Peter | Dylan |
| Week 1 | 4 | 9 |
| Week 2 | 6 | 3 |
| Week 3 | 10 | 10 |
| Week 4 | 4 | 2 |

The table above shows the number of houses sold per week for the month of July by two real estate agents, Peter and Dylan. What is the difference between the median number of houses sold per week by Dylan and the median number of houses sold per week by Peter?
$\bigcirc 1$
$\bigcirc 2$
$\bigcirc 5$
$\bigcirc 6$
$3 n+24$

## SECTION 6: OUANTITATIVE REASONING

## 12 of 20

At Flo's Pancake House, pancakes can be ordered with any of six possible toppings. If no toppings were repeated, how many different ways are there to order pancakes with three toppings?

```
20
O40
O54
O}12
\bigcirc 7 2 0
```

13 of 20


The area of triangle $K L M$ is equal to the area of rectangle $A B C D$. If the perimeter of $A B C D$ is 16 , what is the length of $L M$ ?
$\frac{3}{2}$
○ 3

- $\frac{16}{5}$
$\bigcirc 5$
$\bigcirc 6$

Questions 14 through 16 refer to the following graph.

TELEVISION RATINGS* IN THE UNITED STATES 1980-1987

*Ratings equal the percent of television households in the United States that viewed the program.

## 14 of 20

For how many of the years shown did the ratings for Program $y$ increase over the ratings for Program $y$ the previous year?TwoThreeFourFive
Six

## SECTION 6: QUANTITATIVE REASONING

## 15 of 20

In 1995, there were 95 million television households in the United States. If, in 1983 , there were 80 percent of the number of television households in 1995, then approximately how many television households, in millions, viewed Program $y$ in 1983 ?8076151210

## 16 of 20

If there were 20 million television households in the United States in 1983, then the number of viewers of Program $x$ is how much greater than the number of viewers of Program $y$ in 1983 ?


Click on the answer box and type in a number. Backspace to erase.

18 of 20
One-quarter of the cars that an automobile manufacturer produces are sports cars, and the rest are sedans. If one-fifth of the cars that the manufacturer produces are red and one-third of the sports cars are red, then what fraction of the sedans is red?


Click on each box and type in a number.

## 17 of 20

Each of the 576 houses in Tenantville is owned by one of the following landlords: Matt, Gavin, Angela, or Susan. Matt and Angela together own twice as many houses as Gavin and Susan own. If Gavin owns 100 more houses than Susan owns, and Matt owns 100 more houses than Angela owns, how many houses does Susan own?

46

19 of 20
A candy jar has 4 lime, 10 cherry, 8 orange, and $x$ grape candies. If Tom selects a candy from the jar at random and the probability that he selects an orange candy is greater than 20 percent, which of the following could be the value of $x$ ?

Indicate all such values.

```
1010
```1418

\section*{Backspace to erase.}1822
24

146


\section*{SECTION 6: QUANTITATIVE REASONING}

20 of 20


Square \(A B C D\) and a circle with center \(C\) intersect as showr. If point \(E\) is at the center of \(A B C D\) and if the radius of circle \(C\) is \(k\), then what is the area of \(A B C D\), in terms of \(k\) ?
\(\frac{k^{2}}{2 \pi}\)
\(\frac{\pi k^{2}}{2}\)
( \(\pi k^{2}\)
\(\bigcirc k^{2}\)
\(\bigcirc 2 k^{2}\)

\section*{5tictur}

\section*{Chapter 21 Practice Test 2: Answers and Explanations}

\section*{INTERPRETING YOUR RESULTS}

After you check your answers on the following pages, fill out this sheet to interpret your results.

\section*{Analytical Writing}

To evaluate your performance on the Analytical Writing sections, compare your response to the advice and samples in the Analytical Writing chapter.

\section*{Verbal Reasoning}

Refer to the explanations to check your answers. Count the number of questions you got correct in each Verbal Reasoning section, and calculate the total number correct. Find the section of the Interpretive Guide (below) that corresponds to your total to get an idea of how your performance compares to that of other test takers.
\begin{tabular}{|l|l|}
\hline \multicolumn{1}{|r|}{ Test 2 } & \# Correct \\
\hline Section 3 & \\
\hline Section 5 & \\
\hline Total & \\
\hline
\end{tabular}

\section*{Quantitative Reasoning}

Refer to the explanations to check your answers. Count the number of questions you got correct in each Quantitative Reasoning section, and calculate the total number correct. Find the section of the Interpretive Guide (below) that corresponds to your total to get an idea of how your performance compares to that of other test takers.
\begin{tabular}{|l|l|}
\hline \multicolumn{1}{|c|}{ Test 2 } & \# Correct \\
\hline Section 4 & \\
\hline Section 6 & \\
\hline Total & \\
\hline
\end{tabular}

\section*{Interpretive Guide}

The table below provides a guide for interpreting your performance based on the number of questions you got correct in each subject.
\begin{tabular}{|l|c|c|c|}
\hline \multicolumn{1}{|c|}{ Subject } & \begin{tabular}{c} 
Above \\
Average
\end{tabular} & Average & \begin{tabular}{c} 
Below \\
Average
\end{tabular} \\
\hline Verbal Reasoning & \(30-40\) & \(22-29\) & \(1-21\) \\
\hline Quantitative Reasoning & \(33-40\) & \(24-32\) & \(1-23\) \\
\hline
\end{tabular}

\section*{Section 3}
1. inflection and utilized

For the first blank, the transition "more important" tells you to change direction from "actual words." Also, sarcastically is an example of tone. Look for a choice that means tone. Inflection fits tone. Pitch is nonverbal, but it does not match the example of sarcastically. Accuracy does not fit. For the second blank, look for a word that means conveyed or spoken. Utilized is the best match. Implied and repudiated don't fit.
2. expressive, relegated, and conflict with

Try working with the first blank first. The clue is artistic, and the transition and indicates the first blank should be a word that is the same as artistic. Expressive is the best choice; neither tedious nor tiresome works. Though changes the direction of the sentence-though the studio likes the creative/artistic aspect, something negative must be happening to creativity-it's brought down to a secondary position. Eliminate uplifted and compared for blank (ii) because they are not negative, and choose relegated. Turning to the third blank, "organization and hierarchy" are in opposition to creativity, so conflict with makes the most sense.
3. axiomatic

You are given the clue that the beliefs "are in conflict" and "cannot all be correct." Therefore, whatever goes into the blank must be synonymous with correct or something we can infer correctness from. The correct answer is axiomatic, which means self-evident or universally true. Disputable is the opposite of what the sentence requires, and ubiquitous and bistoric are not synonymous with self-evident. Although empirical, meaning derived from observation, might fit science, it is not a good fit for religion.
4. staved off, contributed to, and affliction

The clue "Although most preventative medical ointments commonly in use" tells you that most ointments would prevent an infection, but the one Helen used did not. Recycle the clue, and put a word that means prevent in the first blank; staved off is the best match. Work with the second and third blanks together. The ointment did not prevent an infection, and the clue "much to her dismay" tells you that something bad happened. The only pair that makes sense together is contributed to and affliction because they tell you that the ointment made her problem worse.

\section*{5. glib, spontaneity, and tepid}

For the first blank, the clue is offhand remarks, so the blank means something like "offhand." Glib, which means "superficial or showing a lack of concern," is the closest match for this. Sticking to prepared talking points can result in a lack of "excitement" or "naturalness," which spontaneity matches. For the last blank, you know the crowd's responses are lukewarm, so the answer for that blank is tepid.

\section*{6. shallow}

The clue is the entire clause that follows the semicolon: "its characters take trivial concerns seriously while thoughtlessly dismissing important ones." Look for a word that means superficial or petty to go in the blank. The only one that fits is shallow.
7. B

The third paragraph states that if incorrect quantities of Haber nitrogen were applied, "the wheat crop would grow taller and thicker, eventually toppling over and rotting." Losing a crop would be an undesirable effect, making (B) the correct answer. Eliminate (A) because the passage doesn't compare the effects of Haber nitrogen on different kinds of crops. The passage doesn't provide any information to support (C) and (D). Choice (E) contradicts the passage, which says the farmers were wary of the substance.
8. E

According to the first paragraph, there has been no sharp decline in the world's population and, therefore, we can surmise that food production has been sufficient to allow for the existing population growth, as in (A). In the second paragraph, the author mentions the invention of the tractor as one of the factors that allowed more crops to be grown for human consumption. This reflects the technological innovation in (B). In the last paragraph, the author notes that the environmental movement has opposed efforts at genetic engineering. Thus, (C) is implied as well. The author notes that increases in crop production through the invention of the tractor and ammonia prevented Malthus's predictions from being realized, and this rules out (D). The extent of the impact of genetic engineering is not clear. We don't know that a Malthusian disaster would have been a certainty without genetic engineering. Therefore, the correct answer is (E) because it is not implied.
9. D

The first paragraph states that Malthus believed that "population increases in a geometric ratio, while the means of subsistence increases in an arithmetic ratio." More simply put, Malthus argued that population growth happens at a significantly faster rate than food production. Only (D) demonstrates this.
10. E

The first paragraph presents Malthus's prediction about what would happen if population growth were to outstrip food production. If there were too many people and not enough food, you would expect a significant or rapid population decline. Look for a word to replace precipitous that is similar to significant or rapid. Sharp, (E), is the best word.
11. B

The "rosy prospect" refers to the previous paragraph's discussion of the booming tourism industry in Australia, which implies a positive future, and the "cloud on the horizon" refers to the conflict between the rights of the Aborigines and the need for the money from tourism, a potential problem. Choice (A) incorrectly interprets the quote as referring to a literal horizon and prospect. Choice (C) is also too literal, taking prospect to mean view. Choice (D) is incorrect because, although this may be true based on later information in the passage, it is not an accurate interpretation of this phrase. Choice (E) is too strong because the future is described as generally good, not hopeless.
12. A, B, and C

All three statements are given as sources of the conflict. Choice (A), economic hardships, is mentioned in the third paragraph. Due to financial difficulties, many regions are unwilling to give up the income derived from tourists visiting Aboriginal lands. Choice (B) is discussed in the second paragraph. The expansion of Western culture is the reason that the Aborigines have moved inland and abandoned other sacred sites. Choice (C) is mentioned in the first sentence. Tourism is described as particularly important due to the "dearth of natural resources."

The first part of the clue is "mercurial character," which means George's moods change frequently. The second part of the clue is "one moment he was optimistic about his prospects," and the transition is the next he was. Thus, the blank should be the opposite of optimistic; look for words that mean pessimistic. Morose and dour are both similar to pessimistic. Hopeful and buoyant have the opposite meaning, and witty and immoral are not related.
14. tyro and neophyte

The clue is that she "began her first job." Also, the contrast of "wealthy suburb" and "llama caretaker on a rural farm" suggests that she'd feel out of place or lacking in experience at her first job. Look for words that mean beginner. Tyro and neophyte are the only words that mean beginner. Agronomist and cultivator are traps for people who focused too heavily on the farm. Concierge and curator are traps for people who focused too heavily on caretaker.
15. embellished and colored

The clue "King Duncan's death at the hand of Macbeth comprises the play's only historical truth" tells you that the version of events related in Macbeth was not very accurate. Does anachronistic mean inaccurate? No; cross it out. What about effusive? No. In contrast, embellished works well, but prosaic and serpentine do not. Finally, colored -which, like embellished, means misrepresented or distorted-fits the blank nicely.
16. thewy and sinewy

The word that goes into the blank describes superheroes, of whom the clue phrase states that "every detail of their musculatures would be visible through their clothing." Clearly, something like muscular is called for, and both thewy and sineury fit the bill. The other four words don't fit: Superfluous means unnecessary, pneumatic means full of air, flocculent means covered in wool, and atrophied means shriveled due to disuse.

\section*{17. A and C}

Choice \((A)\) is correct because the passage states that "...without this mundane structure, every cell division would be a step into senescence, and the onset of old age would begin at birth." Choice (B) is not correct because we have no information about what scientists used to think about telomeres. Choice \((\mathrm{C})\) is correct because we are told that one function of telomeres is to mitigate the loss of DNA bases. If no bases are lost, then this role is not important any more.
18. A

The first paragraph says that without telomere buffers "every cell division would be a step into senescence, and the onset of old age would begin at birth," and the last sentence of the passage states that "many ailments associated with normal old age begin only after the telomere buffer has been exhausted through years of cell division." If the protection offered by the buffers didn't exist, you could expect problems related to aging to start sooner, as (A) suggests. Choice (B) goes too far; though the passage speaks on the onset of old age at birth, we can't be sure that almost no one would live past childhood. The passage provides no support for (C), (D), or (E).
19. B

The passage as a whole provides a short history of two types of early musical education, the rote method and the note method. Nowhere in the passage does the author come out in favor of either method, thereby
4. D

Draw the figure. Triangle \(A B C\) has two adjacent sides, \(A B\) and \(A C\), that are equal in length. The angles that are opposite these sides, angles \(B\) and \(C\), are also equal. One common triangle that has two equal sides is the \(45: 45: 90\) triangle. If angles \(B\) and \(C\) were both 45 degrees, then their sum would be 90 and the answer would be (C). However, we know nothing about the third side of the triangle so it is possible that this is equal as well, which creates an equilateral triangle with angles of 60 . The sum of the angles in Quantity A is now 120. You cannot determine which is greater, so the answer is (D).
5. A

Translate: \(\frac{12.5}{100} k=80\), so \(\frac{1}{8} k=80\), and \(k=640\). Use this information in the other equation:
\(k=640=\frac{y}{100} \times 80\), and solve for \(y: y=\frac{10}{8} \times 640=800\). Quantity A is greater than Quantity B.
6. D

Plug in values for each set. If \(P=\{1,2,3,4,5,6,7\}\) and \(Q=\{1,2,3,4,5,6\}\), the range of \(Q\) is smaller. Eliminate (B) and (C). If you change \(P\) to \(\{1,2,3,4,5,7,6\}\), and \(Q\) to \(\{1,2,3,4,5,7\}\), the range of \(Q\) is equal to that of \(P\). Eliminate (A), and select (D).
7. A

One way to attack this problem is to list \(F_{1}\) to \(F_{11}: 10,13,16,19,22,25,28,31,34,37,40\). Notice that \(F_{6}\) through \(F_{10}\) are included in both quantities, so focus on what's different. Quantity A is \(F_{4}+F_{5}\) and Quantity B is \(F_{11}\). Quantity A is \(19+22=41\), and Quantity B is 40 . Alternatively, you know that \(F_{4}\) has had 3 changes from \(F_{1}\). So, \(F_{4}=F_{1}+3(3)=10+9=19\). \(F_{5}\) has had 4 changes from \(F_{1}\), so \(F_{5}=F_{1}+3(4)\) \(=10+12=22 . F_{11}\) has had 10 changes from \(F_{1}\), so \(F_{11}=F_{1}+3(10)=10+30=40\).
8. C

Plug in a number for \(n\). Let \(n=5\). Because \(5 \times 6=30\), the product is 30 . Add 24 to get 54 . Divide by 3 to get 18 as your target. If you plug in 5 for \(n\) in each answer choice, only (C) matches the target: \(2 n+8\) \(=2(5)+8=18\).
9. 10

If the average of \(a\) and \(b\) is 10 , then \(a+b=20\). Likewise, if the average of \(c\) and \(d\) is 7 , then \(c+d=14\). If the average of \(a, b\), and \(c\) is 8 , then \(a+b+c=24\). Because \(a+b=20, c=4\). If \(c=4\), then \(d=10\).
10. C

To find the area of a square, you need the length of a side. To find a side, find the distance between two vertices. If \(A\) is at \((3,7)\) and \(B\) is at \((3,12)\), then length of a side is equivalent to the difference in the \(y\)-coordinates: \(12-7=5\). So, side \(A B\) has a length of 5 . Square this to find the area: \(5^{2}=25\). The fact that there are variables for the \(y\)-value of points \(C\) and \(D\) is irrelevant to solving this problem.
11. B

Get Dylan's median by putting his weekly sales into increasing order and finding the middle value. Dylan's set is \(\{2,3,9,10\}\), and his median is the average of 3 and 9 , or 6 . Next, do the same thing for Peter's sales numbers. Peter's set is \(\{4,4,6,10\}\), so his median is the average of 4 and 6 , which is 5 . The difference between the medians is \(6-5=1\).

Processing a request for accommodations takes time, so you should submit your request as early as possible (at least six weeks before you intend to take the test). The request must include the following:
- a completed Computer-Based Test (CBT) Authorization Voucher Request form and the proper test fee
- a completed Testing Accommodations Request Form
- a Certification of Eligibility: Accommodations History (COE), which verifies your use of accommodations at your college, university, or place of employment. In some cases, the COE is sufficient to document a disability and can be used in place of sending full documentation to ETS. If you are eligible to use the COE in this way, the documentation on file with the college, university, or employer must meet all ETS documentation criteria. Please see the Bulletin Supplement for details.
- documentation (unless you are using the COE as described above)
- If you have a psychiatric disability, physical disability or health-related need, traumatic brain injury, or autism spectrum disorder, you must submit documentation.
- Documentation must also be submitted if your disability has been diagnosed within the last twelve months, regardless of the accommodations you are requesting.

The documentation you submit must meet the following criteria:
- Clearly state the diagnosed disability
- Describe the functional limitations resulting from the disability
- Be current: within the last five years for a learning disability or autism spectrum disorder, last six months for a psychiatric or physical disability or a health-related need, or last three years for other disabilities. Documentation of physical or sensory disabilities of a permanent or unchanging nature may be older if it provides all of the pertinent information.
- Include complete educational, developmental, and medical history relevant to the disability
- Include a list of all test instruments used in the evaluation report and all subtest, composite, and/or index scores used to document the stated disability
- Describe the specific accommodations requested
- State why the disability qualifies you for the requested accommodations
- Be typed or printed on official letterhead and be signed and dated by an evaluator qualified to make the diagnosis. The report should include information about the evaluator's license or certification and area of specialization.

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