

**EFFECTIVE**  
September 1, 1998

**MILLER**  
**ANALOGIES TEST®**

***Candidate  
Information  
Booklet***



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# Section I.

## INTRODUCTION

### Candidate Information Booklet

This booklet contains complete information about the Miller Analogies Test. It explains how to apply for the test, describes the general content of the test, provides sample questions with answers, and tells you what happens after you have taken the test.

Read this booklet completely and carefully. You should not call or write The Psychological Corporation with questions until you have thoroughly read this booklet.

**KEEP THIS BOOKLET FOR REFERENCE.** It contains information you will need after you apply for the test and after you take the test.

It is critical that you strictly adhere to all procedures and deadlines in this candidate information booklet.

### The Miller Analogies Test Program

The Miller Analogies Test (MAT) is administered through a network of Controlled Testing Centers (CTCs) licensed by The Psychological Corporation to administer the MAT. While The Psychological Corporation has rigorous procedures that all Controlled Testing Centers must follow, each Controlled Testing Center establishes its own testing schedule and its own procedures that candidates must follow to apply for the test (including setting the test fee). Candidates apply directly to Controlled Testing Centers to take the MAT.

Controlled Testing Centers are responsible only for administering the MAT. The Psychological Corporation does all scoring and reporting of scores.

### Notice to Candidates Who Plan to Retake the Miller Analogies Test (MAT)

There are a number of alternate, comparable forms of the MAT. The form of the MAT administered to an examinee who retakes the MAT is determined by that examinee's MAT testing history. **If an examinee retaking the MAT is administered the same form more than once in a twelve-month period, the examinee's retest score will be voided and will not be reported to anyone.**

For this reason, **score reports include a retest admission ticket.** When you apply to retake the MAT, be sure to inform your Controlled Testing Center that you have taken the MAT within the past 12 months, and be sure to bring your retest admission ticket to the Controlled Testing Center when you report for testing.

# **The Psychological Corporation**

Founded in 1921, The Psychological Corporation is the oldest commercial test publisher in the nation and is an acknowledged leader in the test development and publishing industry.

The Psychological Corporation develops and publishes tests for use by graduate school and college admissions offices, licensing and credentialing programs, and businesses. It also develops and publishes tests and other materials for service providers in education, clinical psychology, and speech, language, and hearing.

More than 600 people work for The Psychological Corporation, most of them at the headquarters in San Antonio, Texas. The Psychological Corporation is a subsidiary of Harcourt Brace & Company, the world's leading educational publisher.

**Miller Analogies Test  
The Psychological Corporation  
555 Academic Court  
San Antonio, Texas 78204-3956  
Telephone (210) 921-8802 Fax (210) 921-8861  
Monday – Friday, 8:30 A.M. – 5:00 P.M. Central Time  
(800) 622-3231**

**DO NOT SEND FEE PAYMENTS TO THE ABOVE ADDRESS. SEE PAGE 7 FOR FURTHER INFORMATION REGARDING THE PAYMENT OF FEES.**

# Section II.

## FEES

### Test Fee

Your test fee is paid directly to the Controlled Testing Center to which you apply to take the MAT. The Controlled Testing Center will tell you what its test fee is and how you should pay it. Your test fee covers one personal score report for yourself, and up to three schools (specified when you take the MAT) being sent official score reports by first class mail. See *Reporting of Test Results* for a full explanation of score reporting.

### Additional Fees

**ALL ADDITIONAL FEE PAYMENTS ARE PAID TO THE PSYCHOLOGICAL CORPORATION AND MUST BE IN THE FORM OF A MONEY ORDER.** Make you money order payable to THE PSYCHOLOGICAL CORPORATION. If you are paying from outside the United States, you must submit an **international** money order payable in U.S. dollars.

#### **Domestic Alternative Testing Site Fee — \$55.00**

See the explanation in *Applying for an Alternative Testing Site*.

#### **Foreign Alternative Testing Site Fee — \$75.00**

See the explanation in *Applying for an Alternative Testing Site*.

#### **Replacement Retest Admission Ticket Fee — \$10.00**

See the explanation in *Applying to Retake the MAT*.

#### **Transcript Fee — \$15.00 per transcript**

See the explanation in *Transcript Service*.

#### **Handscoring Fee — \$10.00**

See the explanation in *Handscoring*.

**Send your additional fee payments to: The Psychological Corporation  
Miller Analogies Test  
P.O. Box 98215  
Chicago, IL 60693**

If you need to send your additional fee payment by overnight courier service, address it to:

The Psychological Corporation  
c/o Continental Bank  
P.O. Box 98215  
840 S. Canal Street, 3rd Floor  
Chicago, IL 60693

# Section III.

## APPLYING FOR THE MAT

### Applying to a Controlled Testing Center

To take the MAT at one of the more than 600 Controlled Testing Centers in the United States, Canada, Great Britain, Japan, Puerto Rico, Venezuela, Saudi Arabia, and the Philippines, you will apply directly to the Controlled Testing Center of your choice.

Locations and phone numbers of the Controlled Testing Centers are listed in *Appendix A: Controlled Testing Centers of The Psychological Corporation*. Once you have determined at which Controlled Testing Center you want to take the MAT, telephone the Controlled Testing Center for instructions on how to apply and its test fee. If you are unable to reach a Center at the number listed, please contact directory assistance for the phone number of the institution at which the CTC is located.

There are no nationally scheduled test administrations; each Center determines its own test schedule and test fees. These fees will vary from Center to Center. You will also be told of any special procedures (beyond those in this booklet) that you must follow.

**If you are making arrangements to retake the MAT, inform your Controlled Testing Center that you have taken the test before.** See *Applying to Retake the MAT* for essential information on retaking the MAT.

If you are not within 100 miles of a Controlled Testing Center, you may apply to The Psychological Corporation to take the MAT at an alternative testing site (see *Applying for an Alternative Testing Site*).

### Applying for an Alternative Testing Site

MAT candidates who live more than 100 miles from a Controlled Testing Center may apply to The Psychological Corporation to take the MAT at an alternative testing site. To apply to take the MAT at an alternative testing site, notify The Psychological Corporation's Miller Analogies Test Coordinator, at (800) 622-3231.

The Psychological Corporation's Miller Analogies Test Coordinator will provide you with information about available MAT examiners in your general area. You will then work directly with one of these examiners to schedule the test. After making your arrangements with an examiner, you must notify The Psychological Corporation, in writing, **at the address indicated on page 7**, of the arrangements you have made and pay the alternative testing site fee.

In your letter to The Psychological Corporation's Miller Analogies Test Coordinator, you must provide the following:

1. Your name, address, and social security number or social insurance number;
2. Your daytime telephone number;
3. The name and address of your MAT examiner;
4. Tentative test date you and your examiner have agreed upon; and
5. A **money order** for the alternative testing site fee.

Your money order must be payable to The Psychological Corporation and must display your name. If you are writing from outside the United States, submit an international money order payable in U.S. dollars. The alternative testing site fee you submit to The Psychological Corporation is **nonrefundable**.

Your examiner must also notify The Psychological Corporation in writing that he or she has agreed to administer the MAT to you. The examiner must include a street address to which testing materials are to be sent and the tentative date on which the test is to be administered.

Only after the Miller Analogies Test Coordinator has received both your letter (with fee payment) and your examiner's letter, will testing materials be mailed. Since it is impossible to know when your examiner will receive your testing materials, you should stay in touch with your examiner so that you can take the MAT as soon as possible after he or she receives your materials. Your examiner will be able to keep your testing materials for a limited time only before they must be returned to The Psychological Corporation.

Alternative testing sites ordinarily charge a local and shipping fee for administering the MAT. This fee is separate from the fee you pay The Psychological Corporation and is to be paid directly to your examiner.

## **Applying to Retake the MAT**

There are a number of alternate, comparable forms of the MAT. The form administered to an examinee retaking the MAT is determined by that examinee's MAT testing history. **If an examinee is administered the same form more than once in a twelve-month period, the examinee's retest score will be voided and will not be reported to anyone.**

For this reason, **score reports include a retest admission ticket.** When you apply to retake the MAT, be sure to inform your Controlled Testing Center that you have taken the MAT within the past twelve months, and **be sure to bring your retest admission ticket to the Controlled Testing Center when you report for testing.**

**Failure to use your retest admission ticket can result in your retest score being voided. If your score is voided because you did not use your retest admission ticket, you will not be entitled to any fee refund, and you will have to pay all applicable fees to take the MAT again.**

If you need to retake the MAT but have lost the retest admission ticket you were sent with your personal score report, you **MUST** obtain a replacement ticket by sending a written request to the address indicated on page 7. Also, write the word "RETEST" on the envelope. This will assist us in processing your request.

Your request must include the following:

1. Your name, address and social security or social insurance number;
2. Your daytime telephone number;
3. The approximate date you most recently took the MAT; if your name has changed since that time, include your **previous name**; and
4. A **money order** for the \$10.00 replacement retest admission fee.

Your money order must be payable to The Psychological Corporation and must display your name. If you are writing from outside the United States, submit an international money order payable in U.S. dollars. The replacement retest admission ticket fee you submit to The Psychological Corporation is **nonrefundable**.

## **Applying for Special Administrations for Candidates with Disabilities**

Most Controlled Testing Centers are able to administer the MAT to candidates with disabilities. However, you should notify your chosen Controlled Testing Center of your needs several weeks before your desired test date.

If your disability is such that you will need extra time or assistance to take the MAT, you will be given a nonstandard administration.

To qualify for a nonstandard administration, you must provide your Controlled Testing Center with a current letter from a licensed physician, optometrist, social worker, or psychologist (including title, address, and telephone number) on his or her letterhead describing the nature of your disability as it applies to taking a multiple-choice, standardized test and the specific accommodations you will need for testing. Your Controlled Testing Center will tell you whether the letter is needed before testing arrangements are made or when you report for testing.

Braille and large-print editions of the MAT are available for candidates with visual impairments. If necessary, a reader provided by the Controlled Testing Center may be used.

A candidate unable to mark an answer document can make oral responses to a scribe (provided by the Controlled Testing Center) who will mark the answer document.

If the Controlled Testing Center to which you apply is unable to administer the MAT to you because of your disability, call the Miller Analogies Test Coordinator at The Psychological Corporation for assistance.

# Section IV.

## TAKING THE MAT

### Testing Center Rules

- Take several sharpened number 2 pencils (also called HB pencils) with erasers to your testing center. For accurate scoring of your answer document, only number 2 (or HB) pencils can be used. Mechanical pencils and ink, felt-tip, or ball-point pens must NOT be used.
- If you will be retaking the MAT, be sure to follow the instructions in the section of this booklet titled *Applying to Retake the MAT*.
- You must present two forms of identification: one must be a government-issued photo ID (such as a driver's license or a passport) or a school-issued photo ID with signature; the second can be another form of identification, such as a social security card or a birth certificate.
- Arrive at your testing center on time. Testing will begin promptly. Latecomers (arriving after the test has begun) will not be admitted.
- You may not take calculators (including watch calculators), books (including dictionaries), papers, or any reference materials into the testing room.
- No food or beverages may be taken into the testing room.
- You will be asked to enter your social security number on your answer document. Failure to give your social security number (if you have one) can delay the processing of your scores.
- You must sign your answer document. **Unsigned answer documents will not be scored.**
- It is of the utmost importance that all candidates carefully and completely follow all directions and regulations. Listen carefully to all instructions given by the examiner and follow the directions completely. **You are responsible for marking your answer document according to the instructions you will be given when you take the MAT. If you give incomplete or inaccurate information on your answer document, the reporting of your test results may be affected.**
- There will be no rest break during the test.
- No one will be permitted to leave the testing room until the scheduled end of the test (except in the case of a medical or other emergency).
- Visitors are not allowed in the testing room.

- Any candidate who gives or receives assistance during the test will be required to turn in all test materials immediately and leave the room. The candidate's answer document will not be scored. No fees will be refunded to the candidate.
- You may not ask questions about the test after the test begins.
- Before your administration of the MAT, you may be asked to take a short test of experimental, analogy-type items, called a tryout test. **Your performance on a tryout test does not affect the scores reported to you or your designated score recipients.** These tests are a necessary and standard procedure in the development of new test forms. Because your participation is essential to this process, under no circumstances may you disqualify yourself from taking a tryout test. You should give the test your complete attention and answer each question to the best of your ability. Your participation will give you a valuable practice experience before taking the test upon which your scores will be based.

## Score Recipients

Score recipients are those institutions that you designate to receive official reports or transcripts of your MAT score. Official reports will only be sent to **accredited** institutions of higher education and approved fellowship or scholarship organizations.

In most cases, deciding where you want your score reported presents no problem. If you are applying to an educational institution that requires or accepts MAT scores as part of its admission or financial aid process, you will want your score reported to it. Similarly, if the MAT is required or accepted as part of the application process for a fellowship or scholarship, you will want your score reported in support of your application.

As a general rule, it is reasonable to assume that admissions offices and counseling departments in educational institutions that require or accept MAT scores have staff members who are qualified to interpret MAT scores.

## Specifying Score Recipients When You Take the MAT

Your test fee covers having your score reported to you on a personal score report and up to three score recipients **specified when you take the MAT**. You are not required to specify any score recipient when you take the MAT. However, your test fee pays for the reporting of your score only to score recipients **you specify when you take the MAT**. Regardless of whether you choose to specify one, two, three, or no score recipients when you take the MAT, you will have to pay the transcript fee for any score reports you request after you take the MAT.

You will specify your score recipients on your answer document by entering code numbers from a list of codes that will be distributed before the test begins. **Failure to properly grid this section may cause your scores to be reported to the wrong school or not at all. In addition, if you grid your school code incorrectly at the time of the test, you will later be required to pay a transcript fee to have an official report sent to that score recipient.**

You may specify no more than three score recipients when you take the MAT. If you want your score reported to additional score recipients, you must send a written request to The Psychological Corporation. Do not request that your score be reported to additional score recipients until after you take the MAT. See *Transcript Service* for instructions on how to have your scores reported to additional score recipients.

If you plan to have your scores sent to an institution other than a North American post-graduate institution, or have reason to believe that your institution may not be included in the list of codes, make sure you have the complete mailing address of that intended score recipient with you when you report to take the MAT.

You should keep a record of all score recipients to whom you have your scores reported. See *Replacement Score Reports* for more information.

## No Score Option

Should you decide while you are taking the MAT that you do not want the score you earn reported to anyone, you will be able to request that your answer document not be scored by exercising the no score option. How to exercise the no score option will be explained to you at your Controlled Testing Center before the test begins.

If you exercise the no score option, your score will not be reported to any score recipients, and there will be no reportable record of your having taken the MAT. You will be sent a personal score report, **but it will not show any score.** With your personal score report, you will receive a retest admission ticket that you **must** use to retake the MAT.

**Note: If you request that your test not be scored, the request is irrevocable. Any later request to score your test and report your scores will NOT be honored. No fees will be refunded to examinees who exercise the no score option.**

# Section V.

## SCORING AND SCORE REPORTING

### How Your Test Is Scored

Answer documents are scored electronically, and the data are stored on computer files from which score reports are printed. The Psychological Corporation understands the importance of your test results and uses many quality control procedures, both computerized and manual, during and after the scoring process to ensure the accuracy of scores.

Because of the need to maintain test security, test booklets are not made available for review, and The Psychological Corporation does not provide a list of the questions you answered incorrectly or correctly.

### Reporting of Test Results

After you take the MAT, your answer document will be sent to The Psychological Corporation for scoring and score reporting. Taking into consideration the time that your answer document is in transit to The Psychological Corporation and the time the postal service takes to deliver score reports, you can reasonably expect that you and the score recipients you specified when you took the MAT will receive score reports 10 to 15 business days after you take the MAT. Please note that the high volume of mail during holiday seasons may delay the delivery of score reports. The Psychological Corporation is not responsible for lost, misdirected, or delayed mail.

Occasionally, The Psychological Corporation must cancel the scores of an examinee. In such cases, the examinee does not receive a personal score report, and the examinee's designated score recipients do not receive official score reports. Instead, the examinee receives an official letter from The Psychological Corporation stating the circumstances and offering the opportunity to retest at no charge. This situation is discussed further in *Cancellation of Test Scores by The Psychological Corporation* at the end of this section.

### Personal Score Reports

After you take the MAT, you will be sent a personal score report, a transcript request form for requesting additional official score reports (see *Transcript Service*), and a retest admission ticket that you **MUST** use to gain admittance to retake the MAT (see *Applying to Retake the MAT*).

Your personal score report will be marked "Not to be used as a transcript. For examinee's use only." This report is for your information only. It cannot be used as a substitute for an official score report or a transcript. **Examinees are never sent official score reports.**

Your personal score report will list:

1. Your name, address, and social security number as you gridded them on your answer document;
2. The raw score you earned and the corresponding percentiles for your intended area of study (based on the intended major you gave on your answer document);
3. The percentile score based on current normative data of the general population of MAT examinees (see *How to Read Your Personal Score Report* for an explanation of raw scores and percentiles); and
4. The score recipient codes you specified when you took the MAT.

## Official Score Reports

Official score reports will be sent to the score recipients you specify when you take the MAT. Official score reports will list:

1. Your name, address, social security number, date of birth, and intended major as you stated on your answer document;
2. The date you took the MAT;
3. Your raw score;
4. Your percentile score based on the current normative data of the general population of MAT examinees;
5. Your percentile score based on the current normative data for your intended major as indicated on your answer document; and
6. Any other MAT scores you earned during the previous five years.

**Scores more than five years old will NOT be reported.**

## How to Read Your Personal Score Report

Three scores will appear on your personal score report: your raw score, your percentile based on the intended major you gave on your answer document, and your percentile based on the general population of MAT examinees (the total group percentile).

Your raw score is the number of questions you answered correctly.

A percentile (%ile) ranks your performance relative to the performance of individuals in a specified group. It tells what percent of the group earned raw scores equal to or lower than your raw score. A percentile of 70 means that your raw score was equal to or higher than the raw scores earned by 70% of the individuals to whom you are being compared; a percentile of 40 means that your raw score was equal to or higher than the raw scores earned by 40% of the individuals to whom you are being compared.

Your intended-major percentile ranks your performance relative to the performance of MAT examinees who specified an intended major in the same area of study as the intended major you gave on your answer document. Thus, if you specified an intended major listed under social sciences, your intended-major percentile ranks your performance relative to the performance of other examinees who specified an intended major listed under social sciences.

Your total-group percentile ranks your performance relative to the general population of MAT examinees.

A chart showing raw scores and corresponding percentiles for a number of areas of study appears in Appendix B.

There is no passing raw score or percentile established or recommended by The Psychological Corporation for the MAT. Score recipients have their own standards, and these standards vary widely. A score that is interpreted as high by one score recipient may be seen as average by another. In addition, how much weight score recipients place on MAT scores varies from score recipient to score recipient. A MAT score is only one of a number of factors used to select candidates for graduate school admission.

## Handscoring

After you receive your personal score report, you may request that your raw score be verified by handscoring. There is a \$10.00 fee for this service. However, the scoring methods used by The Psychological Corporation are highly reliable and accurate, and handscoring rarely results in a score change.

To have your score verified by handscoring, write The Psychological Corporation at the address indicated on page 7, and include a money order for \$10.00. Your money order must be made out to The Psychological Corporation and display your name. Your letter must specify the date you took the MAT, the location at which you took it, and your complete name, address, and social security number (if you have one). Requests for handscoring must be received by The Psychological Corporation within 60 days of your test date.

## Replacement Score Reports

If you have not received your personal score report by four weeks after the date you tested, or if you receive a damaged score report, The Psychological Corporation will replace it at no cost to you. Replacement score reports will not list any score recipients.

If a designated score recipient has not received an official score report by four weeks after the date you tested, The Psychological Corporation will provide a replacement score report at no cost to you, providing that you specified the proper score recipient code when you took the MAT. If you did not specify the proper score recipient code, you will have to pay the transcript fee to have your score resent. If you did not completely grid the proper recipient code, you will be required to submit a transcript request form which is included with your personal score report, along with the appropriate fee.

**Written requests for replacement score reports must be received by The Psychological Corporation no later than six weeks after your test date.** Requests for replacement score reports received more than six weeks after your test date must include the transcript fee of \$15.00 for each replacement score report requested.

## Transcript Service

For five years after your test date, you can have transcripts of your MAT score sent to additional score recipients. **Scores more than five years old will NOT be reported.**

Transcripts you request will list:

1. Your name, address, social security number, date of birth, and intended major as you gridded them on your answer document;
2. The date you took the MAT;
3. Your raw score;
4. Your percentile based on the current normative data of the general population of MAT examinees;
5. Your percentile based on the current normative data for your intended major as indicated on your answer document; and
6. Any other MAT scores you earned during the **five years** preceding the date of your latest test date.

After you take the MAT, you can have your score reported to score recipients by using the transcript request form you received with your personal score report or by submitting a letter to The Psychological Corporation **at the address indicated on page 7**. Only requests submitted in writing will be accepted.

If you do not use the transcript request form, your letter must specify that you are requesting a transcript of your MAT score and include:

1. The place and approximate date you took the MAT;
2. Your name as you gave it when you took the MAT (if your name has changed, also give your current name) and your current address;
3. Your social security number (if you have one);
4. The complete address or addresses to which you want your score reported;
5. The date of your request;
6. Your daytime telephone number; and
7. Your signature.

With your letter, you must include a **money order** for the transcript fee of \$15.00 per transcript. The money order must be payable to The Psychological Corporation and display your name. If you are submitting your request from outside the United States, you must submit an international money order payable in U.S. dollars.

Within five business days of receiving your transcript request, The Psychological Corporation will send a transcript to your designated score recipient. Transcripts are sent by first class mail.

If a score recipient for whom you requested a transcript has not received the transcript by three weeks after your request, The Psychological Corporation will provide a replacement transcript at no cost to you.

## **Cancellation of Scores by The Psychological Corporation**

The Psychological Corporation is responsible for reporting scores that accurately reflect the performance of the examinee. For this reason, we adhere to a set of test administration and test security standards and review all test scores and administrative irregularities. The Psychological Corporation reserves the right to cancel any score it believes was obtained in a questionable manner.

When a score is canceled, examinees will be given the opportunity to provide additional information about the situation. The examinee will also be given the option of retesting/verifying scores at no additional charge or canceling the test scores. The Psychological Corporation will make no reimbursements for any expenses incurred by an examinee whose scores are canceled.

All score cancellations are held in strict confidence. Reasons for score cancellations will not be disclosed to anyone except the examinee.

# Section VI.

## THE MILLER ANALOGIES TEST

The MAT is a high-level mental ability test requiring the solution of problems stated as analogies. It consists of 100 partial analogies that are to be completed in 50 minutes.

Fluency in the English language, a broad knowledge of literature, philosophy, history, science, mathematics, and fine arts, and the ability to reason out relationships may contribute to performance on the MAT. There is no foreign-language edition of the MAT. No one is permitted to use a dictionary or any other reference aid when taking the MAT.

### The MAT Analogy

An analogy states that two things are related to each other in the same way that two other things are related to each other. The equation for an analogy is written in the form  $A : B :: C : D$ , which can be read as "A is to B as C is to D" or as "A is related to B in the same way that C is related to D."

In the MAT, one term in an analogy has been replaced with four options, only one of which will correctly complete the analogy. An example of a MAT analogy is  $PLANE : AIR :: BOAT : (a. \text{ submarine, } b. \text{ fish, } c. \text{ water, } d. \text{ pilot})$  which is read "PLANE is to AIR as BOAT is to (a. submarine, b. fish, c. water, d. pilot)."

To answer an analogy item, you must select the option (*a*, *b*, *c*, or *d*) that creates a valid analogy.

The option that correctly completes the above analogy is *c. water*. The relationship is that a PLANE travels on AIR, and a BOAT travels on WATER.

Any one of the terms in a MAT analogy may be replaced with the four options. All of the following are proper formats for a MAT analogy:

$SALT : HYPERTENSION :: SUGAR : (a. \text{ cholesterol, } b. \text{ carbohydrates, } c. \text{ hyperthyroidism, } d. \text{ diabetes})$

Solution: The answer is *d*. SALT contributes to or aggravates the symptoms of HYPERTENSION. SUGAR does the same for DIABETES.

$SEEK : FIND :: (a. \text{ locate, } b. \text{ book, } c. \text{ retrieve, } d. \text{ listen}) : HEAR$

Solution: The answer is *d*. One SEEKS in order to FIND something. One LISTENS in order to HEAR something.

INDUCTION : (a. confirmation, b. graduation, c. ordination, d. resistance) :: SOLDIER : PRIEST

Solution: The answer is c. INDUCTION is the ceremony for becoming a SOLDIER. ORDINATION is the ceremony for becoming a PRIEST.

(a. cure, b. epidemic, c. immunity, d. patient) : SHADE :: INOCULATION : PARASOL

Solution: The answer is c. A PARASOL produces SHADE. An INOCULATION produces IMMUNITY.

## Rearranging MAT Analogies

The solution to a MAT analogy sometimes becomes clearer if you rearrange the terms of the analogy.

The terms of an analogy can be interchanged. That is, the analogy  $A : B :: C : D$  will remain a valid analogy if it is rearranged to  $A : C :: B : D$ .

Thus, the analogy

FRENCH : ROMAN :: RUSSIAN : CYRILLIC,

where the relationship is that FRENCH uses the ROMAN alphabet and RUSSIAN uses the CYRILLIC alphabet, remains a valid analogy when it is reordered to read

FRENCH : RUSSIAN :: ROMAN : CYRILLIC.

No matter how these terms are presented, there is only one valid and logical relationship that exists between each pair of terms.

## Reasoning Out Relationships in MAT Analogies

There are four basic steps in reasoning out a MAT analogy.

1. Read the analogy carefully;
2. Determine the relationship between either the two terms on the left of the equation or the two terms on the right of the equation (remember, you can manipulate the order of the terms as shown in the example in the preceding section);
3. Look at the remaining given term, and think of the word that would have the same kind of relationship to it; and
4. Examine the answer choices and select the option that most closely resembles your idea.

Following are a number of analogies with possible ways of reasoning through them.

NAIVE : (a. foolish, b. innocent, c. unconcerned, d. devious) :: SOPHISTICATED : WORLDLY

In examining the three given terms, you need to recognize that SOPHISTICATED and WORLDLY have similar meanings. The correct answer, then, should be a synonym for NAIVE. The correct answer is *b. innocent*. This item can also be interpreted as an antonymous analogy by interchanging the middle terms. NAIVE is the opposite of SOPHISTICATED. What is the opposite of WORLDLY? Again, the answer is *b. innocent*.

ANNOY : ENRAGE :: ENLARGE : (*a. increase, b. exaggerate, c. augment, d. reduce*)

To ENRAGE is to ANNOY to a greater degree. Thus the correct answer should be the word which means to ENLARGE, but to a greater degree. The correct answer is *b. exaggerate*. This is an example of an item that requires you to distinguish fine shades of meaning and establish the best relationship. If you (incorrectly) thought that ANNOY and ENRAGE were synonyms, then you might have chosen *a. increase*, or *c. augment*, as the answer. You could have eliminated these two choices because they are synonyms and therefore if one were correct, the other would also be correct. Since there is only one correct solution to each MAT analogy, neither could be the correct answer.

SPENSER : POETRY :: SHAKESPEARE : (*a. novel, b. drama, c. lyric, d. essay*)

In looking at the three given terms, we see that there is a creator : creation relationship between SPENSER and POETRY. Edmund Spenser is best known for his poetry, such as *The Faerie Queene*. Thus the correct answer should be the type of literature that SHAKESPEARE is best known for creating. The correct answer is therefore *b. drama*.

POEM : (*a. line, b. rhyme, c. stanza, d. sonnet*) :: BOOK : CHAPTER

The last two of the three given terms have a whole : part relationship. A section of a BOOK is a CHAPTER. The missing term, then, should be the word for a section of a POEM. The correct answer is *c. stanza*. A line is also part of a poem, but it is not a complete section as a chapter is a complete section of a book.

INDEPENDENCE : 1776 :: EMANCIPATION : (*a. 1787, b. 1812, c. 1863, d. 1916*)

The relationship between the first two given terms is one of event : date. The Declaration of INDEPENDENCE was issued in 1776. So the missing term should be the year that the EMANCIPATION Proclamation was issued. The correct answer is *c. 1863*.

STRIKE : (*a. picket, b. union, c. customer, d. employer*) :: BOYCOTT : SELLER

This economics item presents a relationship of action : object. A BOYCOTT is an action taken against a SELLER. Against whom is a STRIKE directed? The correct answer is *d. employer*.

CARNIVORE : HERBIVORE :: TIGER : (*a. shark, b. predator, c. antelope, d. lion*)

A TIGER is an example of a CARNIVORE; that is, a tiger eats meat. The missing term should be a particular animal that eats only plants, a HERBIVORE. The correct answer is *c. antelope*.

LIMESTONE : (*a. sedimentary, b. metamorphic, c. volcanic, d. metallic*) :: GRANITE : IGNEOUS

The last two given terms have a member : group relationship. GRANITE is a kind of IGNEOUS rock. What kind of rock is LIMESTONE? The correct answer is *a. sedimentary*.

(*a. radius, b. diameter, c. area, d. circumference*) : PERIMETER :: CIRCLE : SQUARE

In examining the three given terms, we recognize that the distance around a SQUARE is its PERIMETER. What, then, is the distance around a CIRCLE? The correct answer is *d. circumference*.

4 : 64 :: 5 : (*a. 25, b. 50, c. 90, d. 125*)

One possible relationship is that 4 times 16 equals 64. However, this cannot be the relationship since 5 times 16 is 80 and 80 is not listed as a possible answer.

The relationship here is that 4 cubed equals 64. Since 5 cubed is 125, the correct answer is *d. 125*.

PINT : (*a. cup, b. quart, c. liter, d. gallon*) :: 1 : 2

This analogy uses a ratio relationship of 1 : 2. Which answer is TWO times the volume of a PINT? The correct answer is *b. quart*.

## Test-taking Strategies for the MAT

### Read All the Answer Options

Do not select the first answer you come to that seems to make sense. It may seem to fit, but a better choice may also be listed. Remember, you are looking for the **best** answer.

### Consider Other Meanings of a Word

If an analogy doesn't make sense to you, you may need to think of a different meaning for one or more of the words in the analogy. For instance, in the analogy NAPOLEON : WAGON :: (*a. coin, b. baker, c. general, d. statue*) : WAINRIGHT, the analogy makes no sense if you read NAPOLEON as meaning the man. However, a NAPOLEON is also a pastry. Once you have the right definition of NAPOLEON, you can reason that a wagon is made by a wainright and a NAPOLEON is made by a BAKER.

### Reorder the Analogy

As explained in Rearranging MAT Analogies, sometimes a relationship becomes clearer if you change the order of the terms.

## Check the Part of Speech

The answer you choose should be the same part of speech as the corresponding term in the complete pair. For example the answer to NOUN : VERB :: NOUN : ? has to be another verb, not some other part of speech such as a noun or adjective.

Considering parts of speech can also help you look at an analogy in a new way. For instance, in the analogy TABLE : BILL :: (a. shelf, b. shelve, c. conveyor, d. convey) : MOTION, two options are nouns and two options are verbs. If your first reaction to TABLE and BILL was to think of them as nouns, the presence of verbs as options should lead you to also think of either or both as verbs. This analysis is likely to lead you to the realization that to delay consideration of a BILL is to TABLE it and to delay consideration of a MOTION is to SHELVE it.

## Postpone Difficult Items

The MAT is a timed test. Since you are to answer 100 questions in 50 minutes, on average you have half a minute per analogy to solve the analogy and mark your answer document. Since each question counts the same, do not spend too much time on an analogy in which the relationship is not apparent to you. Move on to the next analogy, and return to analogies that were unclear to you after you have completed the analogies that are clear to you.

Allow the last 10 minutes or so of the testing period to go back to the items you skipped. When you return to an analogy, you may understand it more clearly than you did the first time you looked at it. One explanation of why this new clarity occurs is that the more analogies you complete, the more used to solving analogies your mind becomes. Another reason may be that you have unconsciously been thinking about the analogies you skipped. If the answer does not come to you quickly on your second try, mark your best guess and move on.

## When You Guess, Try to Make an Informed Guess

Eliminate answer options which do not seem to fit and guess among the remaining options. If you make a straight guess at an answer, you have a one-in-four chance of getting it right; if you can eliminate one option, you have a one-in-three chance of getting it right; and if you can eliminate two options, you have a one-in-two chance of getting it right.

If an analogy completely baffles you, look for clues. For instance, the analogy SINANTHROPUS : PITHECANTHROPUS :: (a. Peking, b. Hong Kong, c. Cairo, d. Kabul) : JAVA might well mean nothing to you when you first read it. However, the presence of “-ANTHROPUS” in the first and second terms may lead you to realize that this analogy has to do with “man” and from there you may well make the connection between JAVA man and PEKING man and arrive at the correct answer of a. Peking. Or, you might reason that since the suffixes for the first two terms are the same, it must be the prefixes that distinguish them. If you know that “Sino-” is the prefix for Chinese, you can figure there is a reasonable chance that the correct answer is either a. Peking or b. Hong Kong.

## **Answer Every Question**

Your score is based on the number of correct answers you give. There is no correction for guessing or extra penalty for a wrong answer. If you have no idea what the correct answer is, go with a hunch or a straight guess. An item to which you do not respond will be scored as a wrong answer. If you guess, at least you have a one-in-four chance of getting the item right.

## **Mark Your Answer Document Carefully**

Keep your place, especially if you skip items. Putting the right answer in the wrong place can be extremely frustrating.

Make sure your marks completely fill the circles.

Do not mark more than one answer for each question. Questions with more than one circle marked are always scored as incorrect.

## Section VII.

# SAMPLE ANALOGIES AND ANNOTATED ANSWERS

One of the best ways to prepare for the MAT is to become familiar and comfortable with analogies. Following are 50 analogies typical of those you will encounter when you take the MAT. Answers with explanations are given after the 50 analogies.

### Sample Analogies

1. CHAMPION : TROPHY :: HERO : (*a. bravery, b. heroism, c. decoration, d. achievement*)
2. WISDOM : (*a. philosopher, b. savant, c. goodness, d. educator*) :: TALENT : VIRTUOSO
3. SPEED : WEIGHT :: KNOT : (*a. distance, b. cord, c. carat, d. bolt*)
4. CEYLON : SRI LANKA :: (*a. Siam, b. Colombo, c. Bangkok, d. Cambodia*) : THAILAND
5. SURNAME : PSEUDONYM :: CLEMENS : (*a. Samuel, b. Harte, c. Dickens, d. Twain*)
6. (*a. nose, b. water, c. bellows, d. socket*) : NOZZLE :: TEAPOT : SPOUT
7. BISMARCK : GERMANY :: (*a. Columbus, b. Franco, c. Vivaldi, d. Garibaldi*) : ITALY
8. NIBBLE : SNACK :: (*a. consume, b. gorge, c. diet, d. gnaw*) : FEAST
9. (*a. 0, b. 4, c. 7, d. 14*) : 2 :: NEUTRAL : ACID
10. BICYCLE : (*a. motorcycle, b. car, c. sailboat, d. skateboard*) :: ROWBOAT : CANOE
11. DRAY : LIMOUSINE :: (*a. passenger, b. engineer, c. cyclist, d. teamster*) : CHAUFFEUR
12. A.W.O.L. : SOLDIER :: (*a. expelled, b. tardy, c. truant, d. suspended*) : STUDENT
13. CELSIUS : (*a. troy, b. centigrade, c. Richter, d. Fahrenheit*) :: TEMPERATURE : TREMOR
14. (*a. tepid, b., arid, c. fetid, d. vapid*) : HUMID :: DESERT : SWAMP
15. REFINERY : (*a. waste, b. power, c. gasoline, d. liquor*) :: DISTILLERY : ALCOHOL
16. V : (*a. L, b. C, c. M, d. D*) :: I : X
17. HORSE : (*a. squid, b. shark, c. dolphin, d. octopus*) :: CAMEL : WALRUS

18. CANDIDE : VOLTAIRE :: (a. Pirandello, b. Cid, c. Quixote, d. Lazarillo) : CERVANTES
19. GAUGE : SHOTGUN :: (a. bullet, b. caliber, c. barrel, d. rod) : PISTOL
20. MAGNA CHARTA : CONSTITUTION :: RUNNYMEDE : (a. Boston, b. Philadelphia, c. Washington, d. New York)
21. (a. e.g., b. i.e., c. N.B., d. cf.) : ETC. :: THAT IS : AND SO FORTH
22. (a. segment, b. sector, c. perpendicular, d. radius) : LINE :: ARC : CIRCLE
23. RODIN : MONET :: (a. composer, b. writer, c. philosopher, d. sculptor) : PAINTER
24. (a. casino, b. caucus, c. circus, d. concert) : CROUPIER :: BANK : TELLER
25. (a. biennial, b. bulbous, c. deciduous, d. perennial) : ANNUAL :: TULIP : ZINNIA
26.  $2^3 : 2^2 :: (a. 2, b. 4, c. 6, d. 8) : 1$
27. MASTICATE : MEDITATE :: (a. arm, b. larynx, c. nerves, d. teeth) : BRAIN
28. DESIDERATUM : DESIDERATA :: MAN : (a. woman, b. principle, c. men, d. participle)
29. AURICLE : VENTRICLE :: VENTRICLE : (a. jugular, b. carotid, c. coronary, d. aorta)
30. WARP : WOOD :: BLISTER : (a. metal, b. paint, c. rattan, d. tile)
31. CALIFORNIUM : RADIUM :: (a. common, b. artificial, c. radioactive, d. element) : NATURAL
32. BRONZE : COPPER :: PEWTER : (a. iron, b. steel, c. tin, d. brass)
33. PRISM : (a. water, b. spectrum, c. light, d. sound) :: CENTRIFUGE : MIXTURE
34. (a. 5, b. 20, c. 50, d. 100) : 10 :: LINCOLN : HAMILTON
35. (a. frame, b. door, c. sash, d. sill) : WINDOW :: PANEL : PANE
36. COMPUTER : CHRONOMETER :: ABACUS : (a. sundial, b. ruler, c. calculator, d. scale)
37. GRAPHOLOGY : (a. personality, b. printing, c. code, d. handwriting) :: PHRENOLOGY : SKULL
38. (a. lion, b. unicorn, c. serpent, d. eagle) : MINOTAUR :: PHOENIX : GRIFFIN
39. MURDER : (a. arson, b. kidnapping, c. vagrancy, d. burglary) :: FELONY : MISDEMEANOR
40. STOCKHOLDER : (a. exchange, b. owner, c. proxy, d. repertory) :: STAR : UNDERSTUDY

41. PRESTO : (*a. staccato, b. libretto, c. largo, d. diminuendo*) :: FORTISSIMO : PIANISSIMO
42. BURNOOSE : CASSOCK :: ARAB : (*a. caftan, b. priest, c. hummock, d. shepherd*)
43. (*a. wall, b. ceiling, c. basement, d. roof*) : FLOOR :: PLUMB : LEVEL
44. SKYSCRAPER : GIRDER :: PIER : (*a. dock, b. anchor, c. plank, d. pile*)
45. PRADO : (*a. Madrid, b. Lisbon, c. Florence, d. Mexico City*) :: LOUVRE : PARIS
46. TASTER : WINE :: (*a. writer, b. critic, c. performer, d. director*) : FILM
47. HYPOTHETICAL : (*a. evidence, b. supposition, c. fact, d. controversy*) :: EMPIRICAL : EXPERIENCE
48. (*a. giraffe, b. platypus, c. opossum, d. raccoon*) : CAMEL :: MARSUPIAL : RUMINANT
49. (*a. brown, b. pink, c. orange, d. yellow*) : RED :: GREEN : BLUE
50. FEAR : PHOBIA :: URGE : (*a. yearning, b. drive, c. compulsion, d. necessity*)

## Annotated Answers

1. (c) A champion is awarded a trophy, and a hero is awarded a decoration.
2. (b) A savant possesses an extraordinary degree of wisdom. A virtuoso possesses an extraordinary degree of talent. (A philosopher is often thought of as wise but is not necessarily so.)
3. (c) Speed (of a nautical vessel) is measured in knots; weight (of a precious metal or gem) is measured in carats.
4. (a) Ceylon is the former name of Sri Lanka. Siam is the former name of Thailand.
5. (d) Samuel Clemens' surname is Clemens. He used Twain as the pseudonym for Clemens.
6. (c) Liquid exits through the spout of a teapot. Air exits through the nozzle of a bellows. (Nozzle can mean nose, but the relationship in this analogy is not that of a synonym.)
7. (d) Bismarck unified nineteenth century Germany. Garibaldi unified nineteenth century Italy.
8. (b) One nibbles on a snack and gorges on a feast.
9. (c) A pH of 7 is neutral. A pH of 2 is acid.
10. (d) Both a rowboat and a canoe are human-powered water vessels. Both a bicycle and a skateboard are human-powered land vehicles. (A sailboat is not for land, and a motorcycle and car both have engines.)
11. (d) A dray is driven by a teamster. A limousine is driven by a chauffeur.
12. (c) A soldier is A.W.O.L. when absent without leave or permission. A student is truant when absent without permission. (A student's being expelled is analogous to a soldier's being discharged.)
13. (c) Celsius is a scale for measuring temperature. Richter is a scale for measuring a tremor or earthquake. (The troy system measures weight. Centigrade and Fahrenheit scales both measure temperature.)
14. (b) A swamp is humid; a desert is arid.
15. (c) Alcohol is produced at a distillery. Gasoline is produced at an oil refinery. (A refinery may also make waste, but that is not its purpose.)
16. (a) The Roman number I (1) is one-tenth of the Roman number X (10). V (5) is one-tenth of L (50).
17. (c) A horse and a camel are both land mammals. A dolphin and a walrus are both sea mammals. (The other choices are not mammals.)

18. (c) Candide is a character in a novel by Voltaire. Quixote is a character in a novel by Cervantes.
19. (b) The diameter of a shotgun barrel is its gauge. The diameter of a pistol barrel is its caliber.
20. (b) The Magna Charta was granted by King John at Runnymede. The Constitution was written in Philadelphia.
21. (b) "Etc." is the abbreviation for et cetera, meaning "and so forth." "I.e." is the abbreviation for id est, meaning "that is."
22. (a) An arc is the portion of a circle between any two points on the circle. A segment is the portion of a line between any two points on the line.
23. (d) Rodin was a French sculptor. Monet was a French painter.
24. (a) A croupier handles money at a casino. A teller handles money at a bank.
25. (d) A zinnia lives for only one growing season and hence is classified as an annual. A tulip lives for several years and thus is a perennial. (A tulip is also bulbous, but that does not fit the analogy with annual.)
26. (a) The ratio between  $2^3$  and  $2^2$  is 8 to 4, which reduces to 2 to 1.
27. (d) To masticate or chew requires teeth. To meditate or think requires a brain.
28. (c) The plural of desideratum (something needed or wanted) is desiderata. The plural of man is men.
29. (d) Blood flows from the auricle to the ventricle and from the ventricle to the aorta.
30. (b) Moisture causes wood to warp and paint to blister. (The other choices do not blister.)
31. (b) Californium is a synthetic or artificial element produced from curium. Radium is a natural element. (Both elements are radioactive.)
32. (c) Bronze is an alloy of copper. Pewter is an alloy of tin. (Brass is another alloy of copper. Steel is an alloy of iron.)
33. (c) A prism separates light into its various wavelengths. A centrifuge separates a mixture into its various components.
34. (a) A portrait of Lincoln is on the \$5 bill. A portrait of Alexander Hamilton is on the \$10 bill.
35. (b) A door is divided into panels. A window is divided into panes.
36. (a) An early type of computer is an abacus. An early type of chronometer (timepiece) is a sundial.

37. (d) Graphology is the study of handwriting as a guide to character. Phrenology is the study of the skull as a guide to character.
38. (b) The minotaur and griffin are fierce and dangerous mythical animals. The phoenix and unicorn are beautiful mythical animals. (The other choices are real animals.)
39. (c) Murder is a crime classified as a felony. Vagrancy is a crime classified as a misdemeanor. (The other choices are all felonies.)
40. (c) A stockholder who cannot vote is replaced by a proxy. A star who cannot perform is replaced by an understudy.
41. (c) Fortissimo, the musical term for “very loudly,” is the opposite of pianissimo, “very softly.” Presto, “rapidly,” is the opposite of largo, “slowly, solemnly.” (Staccato means “detached,” libretto is the text, and diminuendo means “decreasing in loudness.”)
42. (b) A burnoose is traditional Arab dress; a cassock is the traditional garb of a priest.
43. (a) A level is a tool used to indicate a true horizontal, such as a floor. A plumb is a tool used to indicate a true vertical, such as a wall.
44. (d) A skyscraper is supported by girders, and a pier by piles. (A pier supports a dock but is not supported by it.)
45. (a) The Louvre is an art museum in Paris, and the Prado is an art museum in Madrid.
46. (b) A taster evaluates the quality of a wine. A critic evaluates the quality of a film. (The other professions work to create the film.)
47. (b) A hypothetical statement is based on supposition. An empirical statement is based on experience.
48. (c) An opossum is a type of marsupial. A camel is a type of ruminant.
49. (c) Orange is a mixture of yellow and red. Green is a mixture of yellow and blue.
50. (c) An irrational fear is a phobia. An irrational urge to do something is a compulsion. (A drive is also an urge but is not necessarily irrational or irresistible.)

# APPENDIX A

## CONTROLLED TESTING CENTERS OF THE PSYCHOLOGICAL CORPORATION

### AMERICAN CENTERS

#### ALABAMA

ATHENS	ATHENS STATE COLLEGE	(205) 233-8285	CULVER CITY	PEPPERDINE UNIVERSITY - MBA PROGRAM	(310) 568-5529
AUBURN	AUBURN UNIVERSITY	(205) 844-5972	CULVER CITY	PEPPERDINE UNIVERSITY-EXECUTIVE MBA PROGRAM	(310) 568-5541
BIRMINGHAM	BIRMINGHAM SOUTHERN COLLEGE	(205) 226-4803	FRESNO	CALIFORNIA STATE UNIVERSITY	(209) 278-2457
BIRMINGHAM	UNIVERSITY OF ALABAMA-BIRMINGHAM	(205) 934-3704	FRESNO	FRESNO PACIFIC COLLEGE	(209) 453-2096
DAPHNE	UNITED STATES SPORTS ACADEMY	(205) 626-3303	HAYWARD	CALIFORNIA STATE UNIVERSITY-HAYWARD	(510) 881-3661
DOTHAN	TROY STATE UNIVERSITY AT DOTHAN	(205) 983-6556	LA VERNE	UNIVERSITY OF LA VERNE	(714) 593-3511
FLORENCE	UNIVERSITY OF NORTH ALABAMA	(205) 760-4252	LOS ANGELES	CALIFORNIA STATE UNIVERSITY	(213) 343-3000
GADSDEN	UNIVERSITY OF ALABAMA	(205) 546-2886	NORTHBRIDGE	CALIFORNIA STATE UNIVERSITY-NORTHBRIDGE	(818) 885-2369
HUNTSVILLE	UNIVERSITY OF ALABAMA	(205) 895-6725	PALM DESERT	CHAPMAN UNIVERSITY	(619) 341-8051
JACKSONVILLE	JACKSONVILLE STATE UNIVERSITY	(205) 782-5475	RIVERSIDE	LA SIERRA UNIVERSITY	(909) 785-2079
LIVINGSTON	LIVINGSTON UNIVERSITY	(205) 652-9661	RIVERSIDE	UNIVERSITY OF CALIFORNIA	(714) 787-5531
MOBILE	UNIVERSITY OF MOBILE	(205) 675-5990	ROHNERT PARK	SONOMA STATE UNIVERSITY	(707) 664-2947
MOBILE	SPRING HILL COLLEGE	(205) 460-2351	SAN DIEGO	UNIVERSITY OF PHOENIX	(619) 576-7469
MOBILE	UNIVERSITY OF SOUTH ALABAMA	(205) 460-6271	SAN DIEGO	UNIVERSITY OF SAN DIEGO	(619) 260-4655
MONTEVALLO	UNIVERSITY OF MONTEVALLO	(205) 665-6350	SAN FRANCISCO	SAN FRANCISCO STATE UNIVERSITY	(415) 338-2271
MONTGOMERY	ALABAMA STATE UNIVERSITY	(205) 293-4194	SAN LUIS OBISPO	CALIFORNIA POLYTECHNIC STATE UNIVERSITY	(805) 756-1551
MONTGOMERY	AUBURN UNIVERSITY	(205) 244-3306	SAN RAMON	UNIVERSITY OF PHOENIX	(510) 820-7701
MONTGOMERY	TROY STATE UNIV - MONTGOMERY	(205) 241-9533	SANTA BARBARA	UNIVERSITY OF CALIFORNIA	(408) 429-2628
PHENIX CITY	TROY STATE UNIVERSITY AT PHENIX CITY AL	(205) 297-1007	SANTA CRUZ	UNIVERSITY OF CALIFORNIA	(415) 723-3785
TROY	TROY STATE UNIVERSITY AT TROY	(205) 670-3221	STANFORD	STANFORD UNIVERSITY	(209) 946-2521
TUSCALOOSA	UNIVERSITY OF ALABAMA	(205) 348-6760	STOCKTON	UNIVERSITY OF THE PACIFIC	(707) 864-3356
TUSKEGEE	TUSKEGEE UNIVERSITY	(205) 727-8135	SUISUN	CHAPMAN UNIVERSITY	(209) 667-3157

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ANCHORAGE	UNIVERSITY OF ALASKA AT ANCHORAGE	(907) 786-4500
FAIRBANKS	UNIVERSITY OF ALASKA	(907) 474-5277
NOME	UNIVERSITY OF ALASKA-FAIRBANKS/NORTHWEST	(907) 443-2201
SOLDOTNA	KENAI PENINSULA COLLEGE	(907) 262-0328

#### ARKANSAS

ARKADELPHIA	HENDERSON STATE UNIVERSITY	(501) 246-5511
FAYETTEVILLE	UNIVERSITY OF ARKANSAS-FAYETTEVILLE	(501) 575-3948
LITTLE ROCK	ARKANSAS CHILDREN'S HOSPITAL	(501) 320-1100
LITTLE ROCK	UNIVERSITY OF ARKANSAS-LITTLE ROCK	(501) 569-3198
MAGNOLIA	SOUTHERN ARKANSAS UNIVERSITY	(501) 235-4145
MONTICELLO	UNIVERSITY OF ARKANSAS AT MONTICELLO	(501) 460-1054
RUSSELLVILLE	ARKANSAS TECH UNIVERSITY	(501) 968-0302
SEARCY	HARDING UNIVERSITY	(501) 279-4415
STATE UNIVERSITY	ARKANSAS STATE UNIVERSITY	(501) 972-2034

#### ARIZONA

FLAGSTAFF	NORTHERN ARIZONA UNIVERSITY	(602) 523-2261
TEMPE	ARIZONA STATE UNIVERSITY	(602) 965-7146
TUCSON	UNIVERSITY OF ARIZONA	(602) 621-7589

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ARCATA	HUMBOLDT STATE UNIVERSITY	(707) 826-3611
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RIVERSIDE	UNIVERSITY OF CALIFORNIA	(714) 787-5531
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SAN DIEGO	UNIVERSITY OF PHOENIX	(619) 576-7469
SAN DIEGO	UNIVERSITY OF SAN DIEGO	(619) 260-4655
SAN FRANCISCO	SAN FRANCISCO STATE UNIVERSITY	(415) 338-2271
SAN LUIS OBISPO	CALIFORNIA POLYTECHNIC STATE UNIVERSITY	(805) 756-1551
SAN RAMON	UNIVERSITY OF PHOENIX	(510) 820-7701
SANTA BARBARA	UNIVERSITY OF CALIFORNIA	(408) 429-2628
SANTA CRUZ	UNIVERSITY OF CALIFORNIA	(415) 723-3785
STANFORD	STANFORD UNIVERSITY	(209) 946-2521
STOCKTON	UNIVERSITY OF THE PACIFIC	(707) 864-3356
SUISUN	CHAPMAN UNIVERSITY	(209) 667-3157
TURLOCK	CALIFORNIA STATE UNIVERSITY-STANISLAUS	(213) 693-0771
WHITTIER	WHITTIER COLLEGE	(213) 693-0771

#### COLORADO

ALAMOSA	ADAMS STATE COLLEGE	(719) 589-7626
BOULDER	UNIVERSITY OF COLORADO-BOULDER	(303) 492-5854
COLORADO SPRINGS	COLORADO TECHNICAL COLLEGE	(719) 598-0200
COLORADO SPRINGS	UNIVERSITY OF COLORADO	(719) 593-3255
DENVER	REGIS COLLEGE	(303) 458-3575
DENVER	UNIVERSITY OF COLORADO	(303) 556-2861
DENVER	UNIVERSITY OF DENVER	(303) 871-2150
GREELEY	UNIV OF NORTHERN COLORADO	(303) 351-2790
GUNNISON	WESTERN STATE COLLEGE OF COLORADO	(303) 943-2130
PUEBLO	UNIVERSITY OF SOUTHERN COLORADO	(719) 549-2581

#### CONNECTICUT

BRIDGEPORT	UNIVERSITY OF BRIDGEPORT	(203) 576-4000
DANBURY	WESTERN CONNECTICUT STATE COLLEGE	(203) 797-4313
FAIRFIELD	FAIRFIELD UNIVERSITY	(203) 254-4000
HARTFORD	TRINITY COLLEGE	(203) 297-2412
NEW LONDON	CONNECTICUT COLLEGE	(203) 439-2330
STORRS	UNIVERSITY OF CONNECTICUT	(203) 486-4532
WEST HARTFORD	UNIVERSITY OF HARTFORD	(203) 768-4371

#### DELAWARE

DOVER	WILMINGTON COLLEGE	(302) 674-8726
NEWARK	UNIVERSITY OF DELAWARE	(302) 831-6717

# Appendix A (Cont'd)

## DISTRICT OF COLUMBIA

WASHINGTON THE GEORGE WASHINGTON UNIVERSITY (202) 994-6550  
 WASHINGTON CATHOLIC UNIVERSITY OF AMERICA (202) 319-5765  
 WASHINGTON GALLAUDET UNIVERSITY (202) 651-5270  
 WASHINGTON GEORGETOWN UNIVERSITY (202) 687-6985  
 WASHINGTON HOWARD UNIVERSITY (202) 806-7513

## FLORIDA

BOCA RATON FLORIDA ATLANTIC UNIVERSITY (407) 367-3160  
 DELAND STETSON UNIVERSITY (904) 822-8900  
 FT WALTON BEACH TROY STATE UNIVERSITY (904) 244-7414  
 GAINESVILLE UNIVERSITY OF FLORIDA (904) 392-1575  
 JACKSONVILLE JACKSONVILLE UNIVERSITY (904) 744-3950  
 LAKEWATER FLORIDA SOUTHERN COLLEGE (813) 680-4299  
 MIAMI SHORES BARRY UNIVERSITY (800) 495-2279  
 ORLANDO TROY STATE UNIVERSITY - FLORIDA REGION (407) 898-4685  
 PORT ST. LUCIE BARRY UNIVERSITY (800) 947-2279  
 SARASOTA UNIVERSITY OF SARASOTA (813) 355-2906  
 TALLAHASSEE FLORIDA STATE UNIVERSITY (904) 644-2570  
 TAMPA UNIVERSITY OF SOUTH FLORIDA (813) 974-2741  
 WINTER PARK ROLLINS COLLEGE (407) 646-2222

## GEORGIA

ALBANY ALBANY STATE COLLEGE (912) 430-4600  
 ATLANTA GEORGIA SCHOOL OF PROFESSIONAL PSYCH. (404) 671-1200  
 ATLANTA GEORGIA STATE UNIVERSITY (404) 651-2217  
 AUGUSTA AUGUSTA COLLEGE (706) 737-1471  
 CARROLLTON WEST GEORGIA COLLEGE (404) 836-6435  
 COLUMBUS COLUMBUS COLLEGE (706) 568-2226  
 DAHLONEGA NORTH GEORGIA COLLEGE (706) 864-1799  
 GAINESVILLE BRENAU COLLEGE (404) 534-6220  
 LA GRANGE LA GRANGE COLLEGE (706) 882-2911  
 MACON MERCER UNIVERSITY (912) 752-2862  
 MILLEDGEVILLE GEORGIA COLLEGE (912) 453-5016  
 MT. BERRY BERRY COLLEGE (706) 232-5374  
 SAVANNAH ARMSTRONG STATE COLLEGE (912) 927-5269  
 STATESBORO GEORGIA SOUTHERN UNIVERSITY (912) 681-5415  
 VALDOSTA VALDOSTA STATE COLLEGE (912) 245-3878

## HAWAII

HONOLULU UNIVERSITY OF HAWAII AT MANOA (808) 956-3454

## IDAHO

BOISE BOISE STATE UNIVERSITY (208) 385-1602  
 MOSCOW UNIVERSITY OF IDAHO (208) 885-6716  
 NAMPA NORTHWEST NAZERENE COLLEGE (208) 467-8354  
 POCATELLO IDAHO STATE UNIVERSITY (208) 236-2130

## ILLINOIS

CARBONDALE SOUTHERN ILLINOIS UNIVERSITY (618) 536-3303  
 CHARLESTON EASTERN ILLINOIS UNIVERSITY (217) 581-5986  
 CHICAGO ILLINOIS INSTITUTE OF TECHNOLOGY (312) 808-7100  
 CHICAGO ROOSEVELT UNIVERSITY (312) 341-3548  
 CHICAGO SAINT XAVIER COLLEGE (312) 779-3300  
 CHICAGO UNIVERSITY OF ILLINOIS-CHICAGO (312) 996-0919  
 DEERFIELD TRINITY EVANGELICAL DIVINITY SCHOOL (708) 317-8114  
 DEKALB NORTHERN ILLINOIS UNIVERSITY (815) 753-6057  
 EDWARDSVILLE SOUTHERN ILLINOIS UNIVERSITY (618) 692-2295  
 EVANSTON NATIONAL LOUIS UNIVERSITY (708) 475-1100

GALESBURG KNOX COLLEGE (309) 343-0112  
 GREENVILLE GREENVILLE COLLEGE (618) 664-1840  
 MACOMB WESTERN ILLINOIS UNIVERSITY (309) 298-2453  
 NORMAL ILLINOIS STATE UNIVERSITY (309) 438-2135  
 PEORIA BRADLEY UNIVERSITY (309) 677-2409  
 QUINCY QUINCY COLLEGE (217) 228-5240  
 ROCK ISLAND QUAD-CITIES GRADUATE STUDY CENTER (309) 794-7376  
 URBANA UNIVERSITY OF ILLINOIS-URBANA (217) 333-3706

## INDIANA

BLOOMINGTON INDIANA UNIVERSITY (812) 855-1595  
 EVANSVILLE UNIVERSITY OF EVANSVILLE (812) 479-2371  
 FORT WAYNE ST. FRANCIS COLLEGE (219) 481-6599  
 FORT WAYNE INDIANA-PURDUE UNIVERSITY-FT. WAYNE (219) 481-6599  
 GOSHEN GOSHEN COLLEGE (219) 535-7547  
 GREENCASTLE DEPAUW UNIVERSITY (317) 658-4154  
 HAMMOND PURDUE UNIVERSITY-CALUMET (219) 989-2367  
 INDIANAPOLIS BUTLER UNIVERSITY (317) 283-9329  
 INDIANAPOLIS INDIANA UNIVERSITY-PURDUE (317) 274-3324  
 MARION INDIANA WESLEYAN (317) 677-2257  
 MUNCIE BALL STATE UNIVERSITY (317) 285-1736  
 ST. MEINRAD SAINT MEINRAD SEMINARY (812) 357-6611  
 TERRE HAUTE INDIANA STATE UNIVERSITY (812) 237-2305  
 WEST LAFAYETTE PURDUE UNIVERSITY (317) 494-1145  
 WINONA LAKE GRACE THEOLOGICAL SEMINARY (219) 372-5100

## IOWA

AMES IOWA STATE UNIVERSITY (515) 294-5056  
 CEDAR FALLS UNIVERSITY OF NORTHERN IOWA (319) 273-6024  
 CEDAR RAPIDS COE COLLEGE (319) 399-8644  
 DECORAH LUTHER COLLEGE (319) 387-1020  
 DES MOINES DRAKE UNIVERSITY (515) 271-3866  
 DES MOINES DRAKE UNIVERSITY (515) 271-2182  
 DUBUQUE CLARKE COLLEGE (319) 588-6331  
 DUBUQUE UNIVERSITY OF DUBUQUE (319) 589-3243  
 IOWA CITY UNIVERSITY OF IOWA (319) 335-0355  
 PELLA CENTRAL COLLEGE (515) 628-5246  
 SIOUX CITY MORNINGSIDE COLLEGE (712) 274-5000  
 STORM LAKE BUENA VISTA COLLEGE (712) 749-2205

## KANSAS

EMPORIA EMPORIA STATE UNIVERSITY (316) 341-1200  
 FORT HAYS FORT HAYS UNIVERSITY (913) 628-4401  
 LAWRENCE UNIVERSITY OF KANSAS (913) 864-2277  
 MANHATTAN KANSAS STATE UNIVERSITY (913) 532-6492  
 PITTSBURG PITTSBURG STATE UNIVERSITY (316) 235-4267  
 TOPEKA WASHBURN UNIVERSITY OF TOPEKA (913) 231-1010  
 WICHITA WICHITA STATE UNIVERSITY (316) 689-3440

## KENTUCKY

BEREA BERE COLLEGE (606) 986-9341  
 BOWLING GREEN WESTERN KENTUCKY UNIVERSITY (502) 745-3159  
 LEXINGTON UNIVERSITY OF KENTUCKY (606) 257-8703  
 LOUISVILLE UNIVERSITY OF LOUISVILLE (502) 588-6606  
 MOREHEAD MOREHEAD STATE UNIVERSITY (606) 783-2526  
 MURRAY MURRAY STATE UNIVERSITY (502) 762-6851  
 RICHMOND EASTERN KENTUCKY UNIVERSITY (606) 622-1282

## LOUISIANA

LAFAYETTE UNIVERSITY OF SOUTHWESTERN LOUISIANA (318) 231-6480  
 LAKE CHARLES MCNEESE STATE UNIVERSITY (318) 475-5140

# Appendix A (Cont'd)

NEW ORLEANS	LOYOLA UNIVERSITY	(504) 865-3540
NEW ORLEANS	TULANE UNIVERSITY	(504) 865-5761
NEW ORLEANS	UNIVERSITY OF NEW ORLEANS	(504) 286-7219
NEW ORLEANS	XAVIER UNIVERSITY	(504) 486-7411
RUSTON	LOUISIANA TECH. UNIVERSITY	(318) 257-2488
SHREVEPORT	CENTENARY COLLEGE OF LOUISIANA	(318) 869-5053
THIBODAUX	NICHOLLS STATE UNIVERSITY	(504) 448-4430

## MAINE

FORT KENT	UNIVERSITY OF MAINE AT FORT KENT	(207) 834-3162
LEWISTON	BATES COLLEGE	(207) 786-6232
MACHIAS	UNIVERSITY OF MAINE-MACHIAS	(207) 255-3313
ORONO	UNIVERSITY OF MAINE	(207) 581-1410
PORTLAND	UNIVERSITY OF SOUTHERN MAINE	(207) 780-4383
PRESQUE ISLE	UNIVERSITY OF MAINE AT PRESQUE ISLE	(207) 764-0311
WATERVILLE	COLBY COLLEGE	(207) 872-3343

## MARYLAND

BALTIMORE	JOHNS HOPKINS UNIVERSITY	(410) 516-6196
BALTIMORE	MORGAN STATE UNIVERSITY	(410) 367-7541
BALTIMORE	UNIVERSITY OF MARYLAND BALTIMORE COUNTY	(410) 706-7922
COLLEGE PARK	UNIVERSITY OF MARYLAND-COLLEGE PARK	(301) 314-7688
FROSTBURG	FROSTBURG STATE UNIVERSITY	(301) 689-4193
LA PLATA	CHARLES COUNTY COMMUNITY COLLEGE	(301) 934-2251
SALISBURY	SALISBURY STATE UNIVERSITY	(410) 543-6370
TOWSON	TOWSON STATE UNIVERSITY	(410) 830-2512
WESTMINSTER	WESTERN MARYLAND COLLEGE	(410) 857-2500

## MASSACHUSETTS

AMHERST	UNIVERSITY OF MASSACHUSETTS	(413) 545-0333
BOSTON	NORTHEASTERN UNIVERSITY	(617) 373-2142
BRIDGEWATER	BRIDGEWATER STATE COLLEGE	(508) 697-1295
CAMBRIDGE	HARVARD UNIVERSITY	(617) 495-1538
CHESTNUT HILL	BOSTON COLLEGE	(617) 552-4521
FITCHBURG	FITCHBURG STATE COLLEGE	(508) 345-2151
LOWELL	UNIVERSITY OF MASSACHUSETTS LOWELL	(508) 934-4600
MEDFORD	TUFTS UNIVERSITY	(617) 627-3360
NORTH ADAMS	NORTH ADAMS STATE COLLEGE	(413) 664-4511
NORTH DARMOUTH	UNIVERSITY OF MASSACHUSETTS-DARMOUTH	(508) 999-8000
SALEM	SALEM STATE COLLEGE	(508) 741-6300
SPRINGFIELD	AMERICAN INTERNATIONAL COLLEGE	(413) 647-6215
SPRINGFIELD	SPRINGFIELD COLLEGE	(413) 748-3345
WESTFIELD	WESTFIELD STATE COLLEGE	(413) 568-1992
WORCESTER	COLLEGE OF THE HOLY CROSS	(508) 793-3363
WORCESTER	WORCESTER STATE COLLEGE	(508) 793-8072

## MICHIGAN

ALBION	ALBION COLLEGE	(517) 629-0332
ALMA	ALMA COLLEGE	(517) 463-7225
ANN ARBOR	UNIVERSITY OF MICHIGAN	(313) 665-9612
BIG RAPIDS	FERRIS STATE COLLEGE	(616) 592-2690
DETROIT	MARYGROVE COLLEGE	(313) 862-8000
DETROIT	WAYNE STATE UNIVERSITY	(313) 577-3400
EAST LANSING	MICHIGAN STATE UNIVERSITY	(517) 355-8385
IRONWOOD	GOGEBIC COMMUNITY COLLEGE	(906) 932-4231
KALAMAZOO	WESTERN MICHIGAN UNIVERSITY	(616) 387-8905
MARQUETTE	NORTHERN MICHIGAN UNIVERSITY	(906) 227-2970
MOUNT PLEASANT	CENTRAL MICHIGAN UNIVERSITY	(517) 774-3163
ROCHESTER	OAKLAND UNIVERSITY	(313) 370-3227
SAULT STE MARIE	LAKE SUPERIOR STATE COLLEGE	(906) 632-6841

## MINNESOTA

BEMIDJI	BEMIDJI STATE UNIVERSITY	(218) 755-2024
DULUTH	COLLEGE OF ST. SCHOLASTICA	(218) 723-6000
DULUTH	UNIVERSITY OF MINNESOTA	(218) 726-7985
MANKATO	MANKATO STATE UNIVERSITY	(507) 389-1455
MINNEAPOLIS	UNIVERSITY OF MINNESOTA	(612) 624-9853
MOORHEAD	MOORHEAD STATE UNIVERSITY	(218) 236-2227
MORRIS	UNIVERSITY OF MINNESOTA	(612) 589-6060
NORTHFIELD	CARLETON COLLEGE	(507) 663-4293
ST. CLOUD	ST. CLOUD STATE UNIVERSITY	(612) 255-0121
ST. PAUL	CONCORDIA COLLEGE	(612) 641-8278
ST. PAUL	HAMLIN UNIVERSITY	(612) 641-2195
ST. PAUL	UNIVERSITY OF ST. THOMAS	(612) 962-6780
ST. PETER	GUSTAVUS ADOLPHUS COLLEGE	(507) 933-7586

## MISSISSIPPI

CLEVELAND	DELTA STATE UNIVERSITY	(601) 846-4690
HATTIESBURG	UNIVERSITY OF SOUTHERN MISSISSIPPI	(601) 266-4588
JACKSON	JACKSON STATE UNIVERSITY	(601) 968-2484
LORMAN	ALCORN STATE UNIVERSITY	(601) 877-6230
MERIDIAN	MISSISSIPPI STATE UNIVERSITY	(601) 483-5224
MISSISSIPPI STATE UNIVERSITY	MISSISSIPPI STATE UNIVERSITY	(601) 325-2091
	UNIVERSITY OF MISSISSIPPI	(601) 232-7570

## MISSOURI

CAPE GIRARDEAU	SOUTHEAST MISSOURI UNIVERSITY	(314) 651-2836
COLUMBIA	UNIVERSITY OF MISSOURI	(314) 882-4801
FT LEONARD WOOD	DRURY EVENING COLLEGE	(314) 329-4400
JEFFERSON CITY	LINCOLN UNIVERSITY	(314) 681-5164
JOPLIN	MISSOURI SOUTHERN STATE COLLEGE	(417) 625-9595
KANSAS CITY	MIDWEST BAPTIST THEOLOGICAL SEMINARY	(816) 453-4600
KANSAS CITY	UNIVERSITY OF MISSOURI-KANSAS CITY	(816) 235-1635
KIRKSVILLE	NORTHEAST MISSOURI STATE UNIVERSITY	(816) 785-4140
MARYVILLE	NORTHWEST MISSOURI STATE UNIVERSITY	(816) 562-1220
ROLLA	UNIVERSITY OF MISSOURI-ROLLA	(314) 341-4211
SPRINGFIELD	DRURY COLLEGE	(417) 865-8731
SPRINGFIELD	SOUTHWEST MISSOURI STATE UNIVERSITY	(417) 836-5116
ST. LOUIS	SAINT LOUIS UNIVERSITY	(314) 658-2323
ST. LOUIS	WASHINGTON UNIVERSITY	(314) 935-6777
WARRENSBURG	CENTRAL MISSOURI STATE UNIVERSITY	(816) 543-4919

## MONTANA

BOZEMAN	MONTANA STATE UNIVERSITY	(406) 994-5320
GREAT FALLS	COLLEGE OF GREAT FALLS	(406) 761-8210
HELENA	CARROLL COLLEGE	(406) 447-5440
MISSOULA	UNIVERSITY OF MONTANA	(406) 243-4523

## NEBRASKA

BELLEVUE	BELLEVUE UNIVERSITY	(402) 293-3713
CHADRON	CHADRON STATE COLLEGE	(308) 432-6330
HASTINGS	HASTINGS COLLEGE	(402) 461-7400
KEARNEY	UNIVERSITY OF NEBRASKA AT KEARNEY	(308) 234-8235
LINCOLN	UNIVERSITY OF NEBRASKA-LINCOLN	(402) 472-3755
MCCOOK	MCCOOK COMMUNITY COLLEGE	(308) 345-6303
OMAHA	UNIVERSITY OF NEBRASKA-OMAHA	(402) 554-2409
PERU	PERU STATE COLLEGE	(402) 872-3815
SEWARD	CORCORDIA COLLEGE	(402) 643-3651

## NEVADA

LAS VEGAS	UNIVERSITY OF NEVADA-LAS VEGAS	(702) 895-3627
RENO	UNIVERSITY OF NEVADA-RENO	(702) 784-4648

# Appendix A (Cont'd)

## NEW HAMPSHIRE

DURHAM	UNIVERSITY OF NEW HAMPSHIRE	(603) 862-2010
HANOVER	DARTMOUTH COLLEGE	(603) 646-2603
MANCHESTER	NOTRE DAME COLLEGE	(603) 668-7646
NASHUA	RIVIER COLLEGE	(603) 888-1311
PLYMOUTH	PLYMOUTH STATE COLLEGE	(603) 535-2738

## NEW JERSEY

GLASSBORO	ROWAN COLLEGE OF NEW JERSEY	(609) 863-5376
HOBOKEN	STEVENS INSTITUTE OF TECHNOLOGY	(201) 216-5177
JERSEY CITY	ST. PETER'S COLLEGE	(201) 915-9258
MADISON	DREW UNIVERSITY	(201) 408-3398
MADISON	FAIRLEIGH DICKINSON UNIVERSITY	(201) 593-8556
NEW BRUNSWICK	RUTGERS-STATE UNIVERSITY OF NJ	(908) 932-7353
NEWARK	NEW JERSEY INSTITUTE OF TECHNOLOGY	(201) 596-3414
SOUTH ORANGE	SETON HALL UNIVERSITY	(201) 761-9355
TEANECK	FAIRLEIGH DICKINSON UNIVERSITY	(908) 692-2645
UNION	KEAN COLLEGE OF NEW JERSEY	(908) 527-2082
UPPER MONTCLAIR	MONTCLAIR STATE COLLEGE	(201) 655-4118
WAYNE	WILLIAM PATERSON COLLEGE	(201) 595-2669

## NEW MEXICO

ALBUQUERQUE	UNIVERSITY OF NEW MEXICO	(505) 277-5345
CARLSBAD	NEW MEXICO STATE UNIVERSITY	(505) 885-8831
FARMINGTON	SAN JUAN COLLEGE	(505) 326-3311
LAS CRUCES	NEW MEXICO STATE UNIVERSITY	(505) 646-1921
LAS VEGAS	NEW MEXICO HIGHLANDS UNIVERSITY	(505) 425-7511
PORTALES	EASTERN NEW MEXICO UNIVERSITY	(505) 562-2441

## NEW YORK

ALBANY	STATE UNIVERSITY OF NEW YORK-ALBANY	(518) 442-5805
BRONX	FORDHAM UNIVERSITY	(718) 817-3775
BUFFALO	BUFFALO STATE COLLEGE	(716) 878-5906
BUFFALO	STATE UNIVERSITY OF NEW YORK-BUFFALO	(716) 645-2231
HEMPSTEAD	HOFSTRA UNIVERSITY	(516) 463-5624
ITHACA	CORNELL UNIVERSITY	(607) 255-6929
NEW PALTZ	STATE UNIV OF NEW YORK-NEW PALTZ	(914) 257-2823
NEW YORK	TEACHER'S COLLEGE AT COLUMBIA UNIVERSITY	(212) 678-3262
NIAGARA FALLS	NIAGARA UNIVERSITY	(716) 286-8527
PLATTSBURGH	STATE UNIVERSITY OF NEW YORK-PLATTSBURGH	(518) 564-4182
ROCHESTER	UNIVERSITY OF ROCHESTER	(716) 275-2354
SARATOGA SPRINGS	SKIDMORE COLLEGE	(518) 584-5000
SYRACUSE	SYRACUSE UNIVERSITY	(315) 443-2295

## NORTH CAROLINA

ASHEVILLE	UNIVERSITY OF NORTH CAROLINA - ASHEVILLE	(704) 251-6515
BOILING SPRINGS	GARDNER-WEBB UNIVERSITY	(704) 434-4242
BOONE	APPALACHIAN STATE UNIVERSITY	(704) 262-3180
CHARLOTTE	UNIVERSITY OF NORTH CAROLINA-CHARLOTTE	(704) 547-2104
CULLOWHEE	WESTERN CAROLINA UNIVERSITY	(704) 227-7469
DURHAM	DUKE UNIVERSITY	(919) 660-1020
FAYETTEVILLE	FAYETTEVILLE STATE UNIVERSITY	(919) 486-1301
GREENSBORO	UNIVERSITY OF NORTH CAROLINA-GREENSBORO	(919) 334-5874
GREENVILLE	EAST CAROLINA UNIVERSITY	(919) 757-6811
PEMBROKE	PEMBROKE STATE UNIVERSITY	(919) 521-6202
RALEIGH	NORTH CAROLINA STATE UNIVERSITY	(919) 515-2253
SALISBURY	CATAWBA COLLEGE	(704) 637-4386
WILMINGTON	UNIVERSITY OF NORTH CAROLINA-WILMINGTON	(919) 395-3746
WINGATE	WINGATE COLLEGE	(704) 233-8000
WINSTON-SALEM	WAKE FOREST UNIVERSITY	(919) 759-5273

## NORTH DAKOTA

BISMARCK	UNIVERSITY OF MARY	(701) 255-7500
DICKINSON	DICKINSON STATE UNIVERSITY	(701) 227-2686
FARGO	NORTH DAKOTA STATE UNIVERSITY	(701) 237-7971
GRAND FORKS	UNIVERSITY OF NORTH DAKOTA	(701) 777-2127
MINOT	MINOT STATE UNIVERSITY	(701) 857-3371

## OHIO

AKRON	UNIVERSITY OF AKRON	(216) 972-7084
ALLIANCE	MOUNT UNION COLLEGE	(216) 823-2494
ASHLAND	ASHLAND UNIVERSITY	(419) 289-5380
ATHENS	OHIO UNIVERSITY	(614) 593-1616
BEREA	BALDWIN-WALLACE COLLEGE	(216) 826-2101
BOWLING GREEN	BOWLING GREEN STATE UNIVERSITY	(419) 372-2081
CANTON	WALSH UNIVERSITY	(216) 499-7090
CELINA	WRIGHT STATE UNIVERSITY	(419) 586-2365
CINCINNATI	UNIVERSITY OF CINCINNATI	(513) 556-0648
CINCINNATI	XAVIER UNIVERSITY	(513) 745-3531
CLEVELAND	CASE WESTERN RESERVE UNIVERSITY	(216) 368-5230
CLEVELAND	CLEVELAND STATE UNIVERSITY	(216) 687-2272
COLUMBUS	OHIO STATE UNIVERSITY	(614) 292-0708
DAYTON	UNIVERSITY OF DAYTON	(513) 229-3141
DAYTON	WRIGHT STATE UNIVERSITY	(513) 873-2945
DELAWARE	OHIO WESLEYAN UNIVERSITY	(614) 368-3145
GRANVILLE	DENISON UNIVERSITY	(614) 587-6656
KENT	KENT STATE UNIVERSITY	(216) 672-2360
LANCASTER	OHIO UNIVERSITY-LANCASTER	(614) 654-6711
MARIETTA	MARIETTA COLLEGE	(614) 374-4651
NEW CONCORD	MUSKINGUM COLLEGE	(614) 826-8083
OBERLIN	OBERLIN COLLEGE	(216) 775-8355
OXFORD	MIAMI UNIVERSITY	(513) 529-4634
STUEBENVILLE	FRANCISCAN UNIVERSITY-STUEBENVILLE	(614) 283-6486
TOLEDO	UNIVERSITY OF TOLEDO	(419) 537-2011
YOUNGSTOWN	YOUNGSTOWN STATE UNIVERSITY	(216) 742-3057

## OKLAHOMA

ADA	EAST CENTRAL UNIVERSITY	(405) 332-8000
ALVA	NORTHWESTERN OKLAHOMA STATE UNIVERSITY	(405) 327-1700
BETHANY	SOUTHERN NAZARENE UNIVERSITY	(405) 789-6400
EDMOND	UNIV OF CENTRAL OKLAHOMA	(405) 341-2980
LAWTON	CAMERON UNIVERSITY	(405) 581-2503
NORMAN	UNIVERSITY OF OKLAHOMA	(405) 325-2911
STILLWATER	OKLAHOMA STATE UNIVERSITY	(405) 744-5958
TAHLEQUAH	NORTHEASTERN STATE UNIVERSITY	(918) 456-5511
TULSA	ORAL ROBERTS UNIVERSITY	(918) 493-8040
TULSA	THE UNIVERSITY OF TULSA	(918) 631-2387
TULSA	UNIVERSITY CENTER AT TULSA	(918) 586-0700

## OREGON

ASHLAND	SOUTHERN OREGON STATE COLLEGE	(503) 552-6208
CORVALLIS	OREGON STATE UNIVERSITY	(503) 737-2131
EUGENE	UNIVERSITY OF OREGON	(503) 346-3227
KLAMATH FALLS	OREGON INSTITUTE OF TECHNOLOGY	(503) 882-1015
LA GRANDE	EASTERN OREGON STATE COLLEGE	(503) 962-3392
MONMOUTH	WESTERN OREGON STATE COLLEGE	(503) 838-8483
PORTLAND	LEWIS AND CLARK COLLEGE	(503) 768-7160
PORTLAND	PORTLAND STATE UNIVERSITY	(503) 725-4428
PORTLAND	UNIVERSITY OF PORTLAND	(503) 283-7135

## PENNSYLVANIA

BETHLEHEM	LEHIGH UNIVERSITY	(215) 758-3880
BETHLEHEM	NORTHAMPTON COMMUNITY COLLEGE	(215) 861-5350
BLOOMSBURG	BLOOMSBURG UNIVERSITY OF PA	(717) 389-4271

# Appendix A (Cont'd)

BRADFORD	UNIVERSITY OF PITTSBURGH-BRADFORD	(814) 362-7657
CALIFORNIA	CALIFORNIA UNIVERSITY OF PA	(412) 938-4187
CHESTER	WIDENER UNIVERSITY	(215) 499-4176
DALLAS	COLLEGE MISERACORDIA	(717) 674-6318
EAST STROUDSBURG	EAST STROUDSBURG UNIVERSITY	(717) 424-3277
EASTON	LAFAYETTE COLLEGE	(215) 250-5116
EDINBORO	EDINBORO UNIVERSITY OF PA	(814) 732-2532
ERIE	GANNON UNIVERSITY	(814) 871-7682
GLENSIDE	BEAVER COLLEGE	(215) 572-2900
GREENVILLE	THIEL COLLEGE	(412) 589-2076
GROVE CITY	GROVE CITY COLLEGE	(412) 458-2700
GWYNEDD VALLEY	GWYNEDD-MERCY COLLEGE	(215) 641-5561
HARRISBURG	TEMPLE UNIVERSITY-HARRISBURG CENTER	(717) 232-6400
IMMACULATA	IMMACULATA COLLEGE	(215) 647-4400
INDIANA	INDIANA UNIVERSITY OF PA	(412) 357-2235
KUTZTOWN	KUTZTOWN UNIVERSITY OF PA	(215) 683-4087
LANCASTER	FRANKLIN AND MARSHALL COLLEGE	(717) 291-4083
LEWISBURG	BUCKNELL UNIVERSITY	(717) 524-1605
LOCK HAVEN	LOCK HAVEN UNIVERSITY OF PA	(717) 893-2510
MANSFIELD	MANSFIELD UNIVERSITY OF PA	(717) 662-4133
MEADVILLE	ALLEGHENY COLLEGE	(814) 332-4368
MIDDLETOWN	PENN STATE HARRISBURG	(717) 948-6025
MILLERSVILLE	MILLERSVILLE UNIVERSITY OF PA	(717) 872-3122
MONROEVILLE	PENN STATE REGIONAL CTR. FOR CONT ED	(412) 372-4095
NEW WILMINGTON	WESTMINSTER COLLEGE	(412) 946-7181
PHILADELPHIA	CHESTNUT HILL COLLEGE	(215) 248-7149
PHILADELPHIA	HOLY FAMILY COLLEGE	(215) 637-7700
PHILADELPHIA	LASALLE UNIVERSITY	(215) 951-1355
PHILADELPHIA	TEMPLE UNIVERSITY	(215) 204-8611
PITTSBURGH	DUQUESNE UNIVERSITY	(412) 396-6204
PITTSBURGH	UNIVERSITY OF PITTSBURGH	(412) 624-6440
SCRANTON	MARYWOOD COLLEGE	(717) 348-6211
SHIPPENSBURG	SHIPPENSBURG UNIVERSITY OF PA	(717) 532-1213
SLIPPERY ROCK	SLIPPERY ROCK UNIVERSITY OF PA	(412) 738-2847
UNIVERSITY PARK	THE PENNSYLVANIA STATE UNIVERSITY	(814) 865-2191
VILLANOVA	VILLANOVA UNIVERSITY	(610) 519-4050
WEST CHESTER	WEST CHESTER UNIVERSITY OF PA	(215) 436-2301
WILKES-BARRE	KING'S COLLEGE	(717) 826-5900

## PUERTO RICO

RIO PIEDRAS	UNIVERSITY OF PUERTO RICO	(809) 764-0000 EXT. 5540
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## RHODE ISLAND

KINGSTON	UNIVERSITY OF RHODE ISLAND	(401) 792-2288
NEWPORT	SALVE REGINA COLLEGE	(401) 847-6650
PROVIDENCE	PROVIDENCE COLLEGE	(401) 865-2122
PROVIDENCE	RHODE ISLAND COLLEGE	(401) 456-8266

## SOUTH CAROLINA

AIKEN	UNIVERSITY OF SOUTH CAROLINA	(803) 648-6851
ALLEDALE	UNIVERSITY OF SOUTH CAROLINA	(803) 584-3446
CENTRAL	CENTRAL WESLEYAN COLLEGE	(800) 289-1292
CHARLESTON	THE CITADEL	(803) 953-2030
CLEMSON	CLEMSON UNIVERSITY	(803) 656-0335
COLUMBIA	UNIVERSITY OF SOUTH CAROLINA	(803) 777-2782
CONWAY	USC COSTAL CAROLINA COLLEGE	(803) 349-2087
FLORENCE	FRANCES MARION UNIVERSITY	(803) 661-1290
GREENVILLE	FURMAN UNIVERSITY	(803) 294-3031
ORANGEBURG	SOUTH CAROLINA STATE UNIVERSITY	(803) 536-8218
ROCK HILL	WINTHROP COLLEGE	(803) 323-2233
SPARTANBURG	UNIV. OF SOUTH CAROLINA-SPARTANBURG	(803) 599-2192

## SOUTH DAKOTA

ABERDEEN	NORTHERN STATE UNIVERSITY	(605) 622-2530
BROOKINGS	SOUTH DAKOTA STATE UNIVERSITY	(605) 688-4217
SIoux FALLS	AUGUSTANA COLLEGE	(605) 336-4127
VERMILLION	UNIVERSITY OF SOUTH DAKOTA	(605) 677-5611

## TENNESSEE

CHATTANOOGA	UNIVERSITY OF TENNESSEE-CHATTANOOGA	(615) 755-4541
CLARKSVILLE	AUSTIN PEAY STATE UNIVERSITY	(615) 648-6162
CLEVELAND	CHURCH OF GOD SCHOOL OF THEOLOGY	(615) 478-1131
COOKEVILLE	TENNESSEE TECHNOLOGICAL UNIVERSITY	(615) 372-3331
GREENEVILLE	TUSCULUM COLLEGE	(615) 638-1361
HENDERSON	FREED-HARDEMAN UNIVERSITY	(901) 989-6060
JACKSON	LAMBUTH COLLEGE	(901) 425-3297
JACKSON	UNION UNIVERSITY	(901) 668-1818
KNOXVILLE	UNIV OF TENNESSEE-KNOXVILLE	(615) 974-2439
LEBANON	CUMBERLAND UNIVERSITY	(615) 444-2562
MADISON	MIDDLE TENNESSEE SCHOOL OF ANAESTHESIA	(615) 868-6503
MEMPHIS	CHRISTIAN BROTHERS UNIVERSITY	(901) 722-0461
MEMPHIS	LE MOYNE-OWEN COLLEGE	(901) 774-9090
MEMPHIS	MEMPHIS STATE UNIVERSITY	(901) 678-2428
MILLIGAN COLLEGE	MILLIGAN COLLEGE	(615) 461-8711
MURFREESBORO	MIDDLE TENNESSEE STATE UNIVERSITY	(615) 898-2300
NASHVILLE	TENNESSEE STATE UNIVERSITY	(615) 251-1491
NASHVILLE	TREVECCA NAZARENE COLLEGE	(615) 248-7703
NASHVILLE	VANDERBILT UNIVERSITY	(615) 322-2571

## TEXAS

ABILENE	ABILENE CHRISTIAN UNIVERSITY	(915) 674-2451
ARLINGTON	UNIVERSITY OF TEXAS-ARLINGTON	(817) 273-3670
AUSTIN	UNIVERSITY OF TEXAS-AUSTIN	(512) 471-3032
BEAUMONT	LAMAR UNIVERSITY BOX 10040	(409) 880-8444
BELTON	UNIVERSITY OF MARY HARDIN-BAYLOR	(817) 939-4596
COLLEGE STATION	TEXAS A & M UNIVERSITY	(409) 845-4427
DALLAS	SOUTHERN METHODIST UNIVERSITY	(214) 768-2211
EDINBURG	UNIVERSITY OF TEXAS-PAN AMERICAN	(210) 381-2247
EL PASO	UNIVERSITY OF TEXAS-EL PASO	(915) 747-5009
FORT WORTH	SOUTHWESTERN BAPTIST THEOL SEMINARY	(817) 926-1441
FORT WORTH	TEXAS CHRISTIAN UNIVERSITY	(817) 921-7863
HOUSTON	UNIVERSITY OF HOUSTON	(713) 743-5432
HOUSTON	UNIVERSITY OF HOUSTON - CLEAR LAKE	(713) 283-2600
HOUSTON	UNIVERSITY OF TX HEALTH SCIENCE CENTER	(713) 792-7869
HUNTSVILLE	SAM HOUSTON STATE UNIVERSITY	(409) 294-1721
KINGSVILLE	TEXAS A & M UNIVERSITY	(512) 595-3612
LUBBOCK	TEXAS TECH UNIVERSITY	(806) 742-3671
NACOGDOCHES	STEPHEN F. AUSTIN STATE UNIVERSITY	(409) 568-2401
SAN ANTONIO	OUR LADY OF THE LAKE UNIVERSITY	(210) 434-6711
SAN ANTONIO	ST. MARY'S UNIVERSITY	(210) 436-3135
STEPHENVILLE	TARLETON STATE UNIVERSITY	(817) 968-9400
TYLER	UNIVERSITY OF TEXAS-TYLER	(903) 566-7079
WACO	BAYLOR UNIVERSITY	(817) 755-2961

## UTAH

BERNAL	UTAH STATE UNIVERSITY	(801) 789-6100
BLANDING	COLLEGE OF EASTERN UTAH	(801) 678-2201
CEDAR CITY	SOUTHERN UTAH UNIVERSITY	(801) 586-5419
LOGAN	UTAH STATE UNIVERSITY	(801) 750-1004
OGDEN	WEBER STATE COLLEGE	(801) 626-6803
PRICE	COLLEGE OF EASTERN UTAH	(801) 637-2120
PROVO	BRIGHAM YOUNG UNIVERSITY	(801) 378-6129
SALT LAKE CITY	UNIVERSITY OF PHOENIX	(801) 263-1444
SALT LAKE CITY	UNIVERSITY OF UTAH	(801) 581-8733

## VIRGIN ISLANDS

ST. CROIX	UNIVERSITY OF THE VIRGIN ISLANDS	(809) 778-1620
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## VERMONT

BURLINGTON	UNIVERSITY OF VERMONT	(802) 656-3340
CASTLETON	CASTLETON STATE COLLEGE	(802) 468-5611
LYNDONVILLE	LYNDON STATE COLLEGE	(802) 626-9371

# Appendix A (Cont'd)

## VIRGINIA

ARLINGTON	MARYMOUNT UNIVERSITY	(703) 284-1605
BLACKSBURG	VIRGINIA POLYTECHNIC & STATE UNIVERSITY	(703) 231-6557
CHARLOTTESVILLE	UNIVERSITY OF VIRGINIA	(804) 924-3751
DANVILLE	AVERETT COLLEGE	(804) 791-5624
FAIRFAX	GEORGE MASON UNIVERSITY	(703) 993-2390
FREDERICKSBURG	MARY WASHINGTON COLLEGE	(703) 899-4694
HARRISONBURG	EASTERN MENNONITE COLLEGE	(703) 432-4131
LYNCHBURG	LIBERTY UNIVERSITY	(804) 582-2385
LYNCHBURG	LYNCHBURG COLLEGE	(804) 522-8100
NORFOLK	NORFOLK STATE UNIVERSITY	(804) 683-8248
NORFOLK	OLD DOMINION UNIVERSITY	(804) 683-3697
NORFOLK	TROY STATE UNIVERSITY NORFOLK NAVAL BASE	(804) 451-8202
RADFORD	RADFORD UNIVERSITY	(703) 831-5214
RICHMOND	VIRGINIA COMMONWEALTH UNIVERSITY	(804) 367-6277
STERLING	MARYMOUNT UNIVERSITY	(703) 430-7122
VIRGINIA BEACH	REGENT UNIVERSITY	(804) 523-7428
WILLIAMSBURG	COLLEGE OF WILLIAM & MARY	(804) 221-3620

## WASHINGTON

BELLINGHAM	WESTERN WASHINGTON UNIVERSITY	(206) 650-3080
CHENEY	EASTERN WASHINGTON STATE COLLEGE	(509) 359-2366
COLLEGE PLACE	WALLA WALLA COLLEGE	(509) 527-2615
ELLENSBURG	CENTRAL WASHINGTON UNIVERSITY	(509) 963-1855
SEATTLE	UNIVERSITY OF WASHINGTON	(206) 543-1170
SPOKANE	GONZAGA UNIVERSITY	(509) 328-4220
TACOMA	PACIFIC LUTHERN UNIVERSITY	(206) 535-7206

## WEST VIRGINIA

BETHANY	BETHANY COLLEGE	(304) 829-7000
BUCKHANNON	WEST VIRGINIA WESLEYAN COLLEGE	(304) 473-8426
HUNTINGTON	MARSHALL UNIVERSITY	(304) 696-2777
INSTITUTE	UNIVERSITY OF WEST VIRGINIA	(304) 766-2022
MORGANTOWN	WEST VIRGINIA UNIVERSITY	(304) 293-4431
WEST LIBERTY	WEST LIBERTY STATE COLLEGE	(304) 336-8016

## WISCONSIN

BELOIT	BELOIT COLLEGE	(608) 363-2661
EAU CLAIRE	UNIVERSITY OF WISCONSIN-EAU CLAIRE	(715) 836-5521
GREEN BAY	UNIVERSITY OF WISCONSIN-GREEN BAY	(414) 465-2163
HALES CORNERS	SACRED HEART SCHOOL OF THEOLOGY	(414) 425-8300
KENOSHA	CARTHAGE COLLEGE	(414) 551-5959
KENOSHA	UNIVERSITY OF WISCONSIN-PARKSIDE	(414) 553-2321
LA CROSSE	UNIVERSITY OF WISCONSIN-LA CROSSE	(608) 785-8073
MADISON	UNIVERSITY OF WISCONSIN-MADISON	(608) 262-5863
MENOMONIE	UNIVERSITY OF WISCONSIN-STOUT	(715) 232-1211
MILWAUKEE	CARDINAL STRITCH COLLEGE	(414) 352-5400
MILWAUKEE	MARQUETTE UNIVERSITY	(414) 288-7598
MILWAUKEE	UNIVERSITY OF WISCONSIN-MILWAUKEE	(414) 229-4689
OSHKOSH	UNIVERSITY OF WISCONSIN-OSHKOSH	(414) 424-0068
PLATTEVILLE	UNIVERSITY OF WISCONSIN-PLATTEVILLE	(608) 342-1865
STEVENS POINT	UNIVERSITY OF WISCONSIN-STEVENS POINT	(715) 346-3553
SUPERIOR	UNIV OF WISCONSIN - SUPERIOR	(715) 394-8305
WHITEWATER	UNIVERSITY OF WISCONSIN-WHITEWATER	(414) 472-5613

## CANADIAN AND OTHER FOREIGN CENTERS

### ALBERTA

EDMONTON	UNIVERSITY OF ALBERTA	(403) 492-5208
LETHBRIDGE	UNIVERSITY OF LETHBRIDGE	(403) 329-2192

### BRITISH COLUMBIA

VANCOUVER	UNIVERSITY OF BRITISH COLUMBIA	(604) 822-3180
VICTORIA	UNIVERSITY OF VICTORIA	(604) 721-8341

### MANITOBA

WINNIPEG	UNIVERSITY OF MANITOBA	(204) 474-8592
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### NEW BRUNSWICK

FREDERICTON	ST. THOMAS UNIVERSITY	(506) 452-7700
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### NEWFOUNDLAND

ST. JOHN'S	MEMORIAL UNIVERSITY-NEWFOUNDLAND	(709) 737-8874
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### NOVA SCOTIA

HALIFAX	DALHOUSIE UNIVERSITY	(902) 494-2081
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### ONTARIO

HAMILTON	MCMASTER UNIVERSITY	(416) 525-9140
KINGSTON	QUEEN'S UNIVERSITY	(613) 545-6005
LONDON	UNIVERSITY OF WESTERN ONTARIO	(519) 661-3559
OTTAWA	CARLETON UNIVERSITY	(613) 788-6600
OTTAWA	UNIVERSITY OF OTTAWA	(613) 564-2350
ST. CATHERINES	BROCK UNIVERSITY	(416) 688-5550
THUNDER BAY	LAKEHEAD UNIVERSITY	(807) 343-8498
WATERLOO	WILFRID LAURIER UNIVERSITY	(519) 884-1970

### QUEBEC

MONTREAL	CONCORDIA UNIVERSITY-SGW CAMPUS	(514) 848-3545
MONTREAL	MCGILL UNIVERSITY	(514) 398-3601

### SASKATCHEWAN

SASKATOON	ST. THOMAS MORE COLLEGE	(306) 966-8937
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### OTHER FOREIGN CENTERS

TOKYO, JAPAN	TEMPLE UNIVERSITY - JAPAN	(333) 645-4700
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# APPENDIX B

## Raw-Score-to-Percentile Chart

Using this raw-score-to-percentile chart, you can compare your performance on the MAT with the performance of several reference groups. The percentiles presented are based on the results of testings that occurred from 1990 through 1992.

Estimated percentiles appear in the far left and far right columns. Corresponding raw scores are listed between percentiles.

See *How to Read Your Personal Score Report* for an explanation of percentiles.

**Table 1 . Normative Data for Applicants to Graduate School Programs.**

Percentile	FIELD OF STUDY									Percentile
	All Majors	Business	Education	Engineering	Humanities	Natural Sciences	Social Sciences	Other	Undecided	
99	86-100	83-100	85-100	89-100	89-100	84-100	88-100	88-100	85-100	99
97	81-85	77-82	80-84	85-88	85-88	78-83	84-87	82-87	79-84	97
95	74-80	72-76	73-79	78-84	80-84	72-77	77-83	76-81	71-78	95
90	69-73	67-71	68-72	73-77	75-79	67-71	72-76	71-75	65-70	90
85	64-68	62-66	63-67	69-72	71-74	63-66	69-71	67-70	60-64	85
80	61-63	60-61	59-62	66-68	68-70	59-62	65-68	63-66	56-59	80
75	58-60	57-59	57-58	63-65	65-67	57-58	62-64	60-62	54-55	75
70	55-57	55-56	54-56	60-62	63-64	54-56	59-61	57-59	51-53	70
65	53-54	52-54	52-53	58-59	60-62	52-53	56-58	54-56	48-50	65
60	50-52	50-51	49-51	55-57	58-59	49-51	54-55	51-53	46-47	60
55	48-49	47-49	47-48	53-54	55-57	47-48	51-53	49-50	44-45	55
50	46-47	45-46	44-46	50-52	53-54	45-46	49-50	46-48	41-43	50
45	43-45	43-44	42-43	48-49	50-52	43-44	47-48	44-45	40	45
40	41-42	41-42	40-41	46-47	48-49	41-42	45-46	41-43	37-39	40
35	40	39-40	38-39	43-45	45-47	40	42-44	39-40	35-36	35
30	37-39	37-38	36-37	41-42	43-44	37-39	39-41	36-38	33-34	30
25	35-36	34-36	33-35	39-40	40-42	35-36	36-38	34-35	30-32	25
20	32-34	32-33	31-32	36-38	36-39	33-34	34-35	31-33	28-29	20
15	30-31	29-31	28-30	33-35	33-35	30-32	31-33	29-30	25-27	15
10	25-29	26-28	25-27	28-32	29-32	27-29	27-30	25-28	22-24	10
5	21-24	21-25	21-24	24-27	24-28	23-26	23-26	21-24	19-21	5
3	19-20	17-20	18-20	22-23	20-23	20-22	19-22	17-20	16-18	3
1	0-18	0-16	0-17	0-21	0-19	0-19	0-18	0-16	0-15	1
N	148,326	6,942	86,644	434	2,675	13,245	17,838	19,505	1,043	N
Mean	47.5	47.0	46.7	51.9	53.7	47.2	50.5	48.3	43.9	Mean
SD	16.8	16.1	16.6	16.9	16.9	15.5	17.3	17.6	16.8	SD