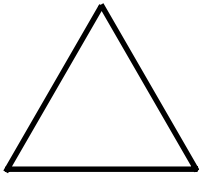


Student's Name \_\_\_\_\_

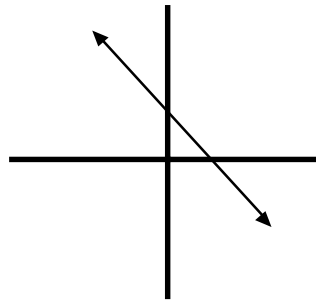
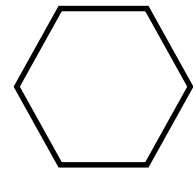
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# MATHEMATICS 4

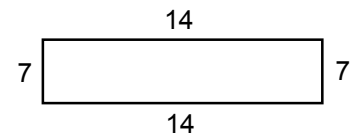
$$(96 \div 6) + 16$$



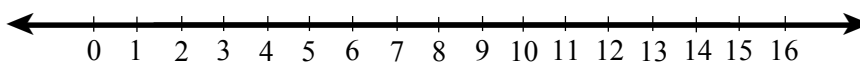
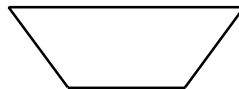
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$$20 + 11d$$



4



# Dear Educator

This sample represents only a portion of the **LEADERSHIP RESOURCES®** Successful Test Taking® Mathematics 4 LEAP 21 book (August 2003 Edition).

The actual book is 72 pages and contains **two** mathematics practice tests each with 70 items, of which 62 are multiple-choice and 8 are constructed-response. There is at least one item for each assessable benchmark.

The actual book is printed on newsprint, is consumable, and is sold in a set of 30 books for \$52.00.

Also included in this sample is 1 page of the teacher's guide. The teacher's guide identifies the specific benchmark each item assesses.

**LEADERSHIP RESOURCES®** publishes similar LEAP 21 preparation books for Grades 4 and 8 for both English Language Arts and Mathematics.

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# Successful Test Taking<sup>®</sup>

# Mathematics 4

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August 2003 Edition

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# Successful Test Taking<sup>®</sup>

## Preface

This test taking book has been developed to help you take a mathematics test, as well as review strategies you already use in math.

A good test:

- A. confirms what you already know,
- B. helps you to see where you can use what you know,
- C. shows you new ideas while taking the test.

Please note that this book was made to help you learn how to prepare for and take tests. It is **not**, however, a complete model of your state test. This book was developed to provide you with typical items that might be tested.

Test taking is complicated. By studying tests and how they are written, you can become a better test taker. The reading, writing, and mathematics strategies you use in the classroom and in daily life can be used here as well.

As you use this book, try to do your best work. Doing your best work is a mirror of your ability and effort.

**Use your Common Sense**

# *Test Taking Tips*

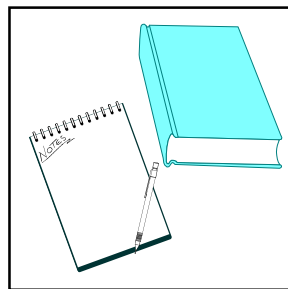
Here are some helpful hints.

## I. Before coming to school on the test days:

- A. **Get some rest.** It's not very smart to try to do your best work when you are tired.



- B. **Eat something** in advance, such as cereal, toast, or fruit, and have some milk or fruit juice. You already know that a decent breakfast will give you the energy you need to do well on the test.



- C. **Come prepared.** You may be provided with a pencil that has an eraser, but bring one anyway. Also, bring a book or magazine to entertain yourself if you finish the test early.

- D. **Arrive on time.** Tests take energy. Don't spend all your energy rushing to get to school on time. Allow yourself plenty of time to get to school on test days.

## II. When you get to school on the test days:

- A. Find a comfortable place to work. This may mean not sitting next to your friends. Remember, your goal is to do your best on the test. Sit where you can concentrate and do well.
- B. Follow along when the teacher gives the test directions. Ask your teacher to explain the directions if you do not understand them.
- C. Some tests are confusing. You may know the answer, but you must correctly fill in the bubble or write your answer on the blank lines to get credit for your answer.
- D. Unless your teacher tells you otherwise, **mark in the test book**. Most test books will not be used again, so mark away! Do any work you need to right on the test book pages.
- E. Don't waste all of your time on one item. It is OK to skip an item and return later. Make finding the item you skipped easy for yourself by putting a large \* next to it.
- F. If you come across an item that just seems impossible, skip it and move on. But don't give up on the whole test altogether. Some test writers put in very hard items at first. Don't let them defeat you when they do this. Keep going!
- G. For multiple-choice questions, mark the **best** answer. If you are not sure of an answer, go ahead and guess wisely. But don't just mark any answer. You probably already know that at least one of the answers is incorrect. Mark out all incorrect answers even if you can't completely figure out the correct answer. This will make guessing wisely easier.
- H. For the constructed-response questions, clearly explain your thinking.
- I. Do your own work. Copying is not right. Besides, when you copy, you run the risk of miscopying, and the person you copy from may be wrong.
- J. Review your multiple-choice answers when you are finished. Reread all your answers to constructed-response questions to make sure they are clear and complete.
- K. Most tests are too long, and you will get tired. Keep at it, even if you need to stretch your back and arms. It may help to look at the ceiling or out a window from time to time.
- L. **Smile**. Tests are important, but they aren't the end of the world. Remain calm. Do the best you can.

# Successful Test Taking Strategies for Answering Multiple-Choice Questions (Part A) in Mathematics

1. Read each question carefully. Try to get a “feel” for what the answer might be while you are reading the question.
2. Ask and answer, "What do I know?" "What am I being asked to do?"
3. Carefully make any calculations.
4. There will be 4 answer choices for each question in this book. Look at each answer choice. Mark out all incorrect answer choices.
5. If you really don't know the answer, try using each answer choice in the question. “Plugging-in” each answer choice may help you find the best answer.
6. Then, mark the **best** answer right in this book by filling in the circle (bubble) to the left of the answer you chose. Completely fill in only one bubble. A correct answer is worth one point.

# Successful Test Taking Strategies for Answering Constructed-Response Questions (Part B) in Mathematics

Constructed-response questions in Part B require you to think about an answer to a problem, figure out a way to solve the problem, and then write an answer to the problem or perform some task such as making a graph. Constructed-response questions require you to explain why you chose the answer you did or show how you arrived at your answer.

To receive full credit for these questions, you must show the steps you took to solve the problem. A complete answer is worth 4 points.

1. **THINK:** Read the question and any directions carefully.  
Ask yourself, "What do I know?" "What is the question asking me to do?"
2. While you are reading the problem, look for and underline or **highlight** key words or ideas.
3. **SOLVE:** Use the strategies you know best to help you solve the problem:
  - Brainstorm for ideas and strategies by recalling what you already know.
  - Use all the information given in the problem. Decide what is important and what is not.
  - Be careful with your calculations.
4. **EXPLAIN:** Remember, someone will be reading your answers to constructed-response questions. Clearly explain why or show how you chose the answer you did. Explain or show all the steps you took. Do not erase any of your work.
5. Make sure your explanation is clear and complete so that the person who reads your answer understands your thinking.
6. Check your work to make sure you have answered each part of the question and have given all the information asked for by the question.

# 10 Strategies for Successful Test Taking in Mathematics

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## Good math test takers:

1. Read the question or problem.
2. Ask, "What does the question or problem want me to do?"
  - add, subtract, multiply, divide, estimate, measure?"
3. Ask and answer, - "What do I know?"
  - "What am I being asked to do?"
  - "What procedures do I use?"
4. Solve multiple-choice questions by marking out all incorrect answer choices and then selecting the **best** answer.
5. Solve constructed-response questions by **Thinking, Solving, and Explaining.**
6. Review multiple-choice answers to be sure they have selected the **best** answer and reread constructed-response answers to make sure they are clear and complete.
7. If stuck, circle the question number or the entire item to return later for additional work on the question.
8. Take quick stretch breaks when needed, then ask, "What am I getting ready to do next?"
9. Don't give up. Sometimes the easiest questions are at the end of the test.
10. Smile and pat themselves on the back for finding the **best** answers.

## General Information for the Student:

There are two practice tests in this book. Your teacher will let you know when you will take each test.

Each test has both multiple-choice (Part A) and constructed-response (Part B) questions. Practice Test #1 has 70 total questions (62 multiple-choice and 8 constructed-response). The second practice test has 70 total questions (62 multiple-choice and 8 constructed-response).

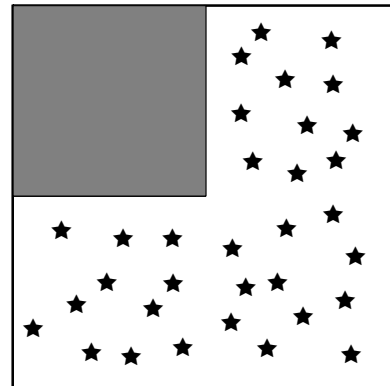
Each test is divided into three sessions (Part A - Session One, Part A - Session Two, Part B). Your teacher will explain when you are to do each session. You may use a calculator for Part A - Session One and Part B. You may **not** use a calculator for Part A - Session Two.

### Here are some important things to remember as you use this book:

1. For multiple-choice questions, choose the **best** answer by filling in the circle (bubble) to the left of the answer you chose.
2. For constructed-response questions, use any blank area to do your work and make any calculations. Think carefully before you write. Remember, someone will be reading your answers. Clearly explain why or show how you chose the answer you did. **SHOW ALL YOUR WORK.** Do not erase your work.
3. Write or mark your answers right in this book.
4. If you do not know the answer to a question, go on to the next question. You can return to that question later.
5. **CONTINUE WORKING UNTIL YOU REACH A STOP SIGN. THEN STOP.**
6. If you finish a test session early, you may check your work **only** in that test session. Do not turn to another session or practice test.

- 5 The large square below shows some stars in it. The smaller shaded square is covering part of the large square and is hiding more stars. About how many total stars would be shown in the large square if the smaller shaded square were not there?

- (A) about 11 stars
- (B) about 22 stars
- (C) about 33 stars
- (D) about 44 stars



- 8 Marta's 50 minute math class begins at 11:10 a.m. Yesterday, halfway through the class, Marta's teacher gave the students a written quiz. At what time did the students begin to take the quiz?

- (A) 11:25 a.m.
- (B) 11:35 a.m.
- (C) 11:45 a.m.
- (D) 12:00 noon

- 9 Some school band members are holding a bake sale to earn money to buy new band instruments. A whole cake cut into eight slices sells for \$12.00. A teacher wants one slice of the cake. The band members use the equation  $8p = 12$  to find the price,  $p$ , of one slice of cake. How much should the band members charge the teacher for one slice of cake?

- (A) \$1.00
- (B) \$1.50
- (C) \$2.00
- (D) \$2.50

- 34 Erin put 10 marbles into a hat. Two of the marbles are blue and 8 of the marbles are green. If Erin reaches into the hat without looking and pulls out one marble, what is the probability that the marble will not be a blue marble?

- (A) 2 out of 8
- (B) 2 out of 10
- (C) 6 out of 10
- (D) 8 out of 10

- 2 Ernest began to write in his new diary on Monday. The table below shows the page Ernest was on after he got done writing in the diary each day.

DAY	PAGE
Monday	25
Tuesday	45
Wednesday	60
Thursday	70
Friday	?

How did the number of pages Ernest wrote in his diary change from day to day? If Ernest continues to write according to the pattern, what page will Ernest be on when he gets done writing in his diary on Friday? Explain your answers.

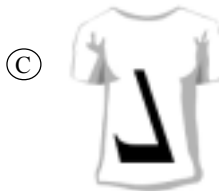
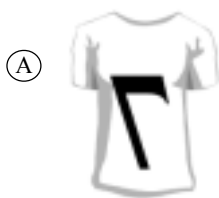
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- 53 Sally put on her softball jersey and looked at herself in a mirror. The jersey has the number 7 on it. Which jersey shows Sally's reflection in the mirror?





# Answer Key & Teacher's Guide

## Successful Test Taking<sup>®</sup> MATHEMATICS 4

August 2003 Edition

LEADERSHIP

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### Successful Test Taking<sup>®</sup>

This *Successful Test Taking<sup>®</sup>* Mathematics 4 book is specifically designed to assist teachers and students as they incorporate the information and skills contained in the Louisiana Content Standards into their learning environment. The book is an **essential teaching resource** for educators interested in preparing their students for the Louisiana Educational Assessment Program (LEAP 21). Students will see the book as a helpful **learning tool** to master important mathematics skills.

### Using “Successful Test Taking<sup>®</sup>”

1. After each student receives a *Successful Test Taking<sup>®</sup>* Mathematics 4 book, let them know they can write and mark their answers in the book.
2. Use pages 3-5 to discuss preparation and aids to test taking.
3. On pages 6 and 7, review with your students the strategies for answering the different types of questions on the LEAP 21.
4. **This book contains two practice tests. Both are equally challenging so teachers can administer either test first.** Because this book is a learning/practice tool, you should tell your students that the format of the

*Successful Test Taking<sup>®</sup>* Mathematics 4 book is somewhat different from the LEAP 21. For example, there are more constructed-response items. This book provides more constructed-response items to give students more thinking/analyzing/writing practice to build their confidence while preparing for the LEAP.

5. Have students turn to the 10 Strategies for Successful Test Taking on page 8 and discuss it with them. Then, review the directions on page 9.
6. Next, have students begin Part A - Session One (with calculators) of either practice test. Students will continue working until they reach the end of Part A - Session One. The testing for Part A - Session Two (without calculators) will be carried out in the same fashion as the testing for Part A - Session One. Part B testing (constructed-response) (with calculators) is administered next.
7. The other practice test is to be administered in the same manner as was the first.
8. **Remind students to continue working on the math problems until they reach a stop sign  in their books, at which point students stop.**
9. There are a total of 70 questions and 94 possible points in each practice test in the *Successful Test Taking<sup>®</sup>* Mathematics 4 book.

LA