

Math Advantage

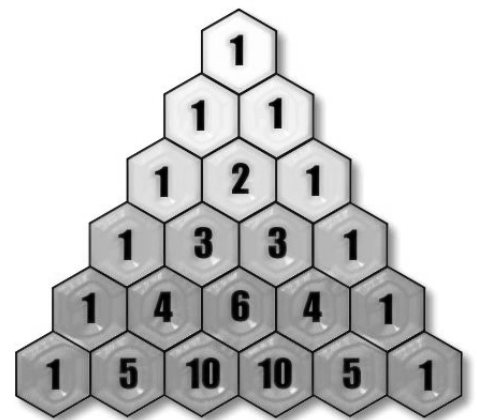
Academic Learning Center

Math Reading Writing Tutoring Test Prep Programming

Math Advantage is a popular destination for parents seeking academic enrichment for their children. Students enrolled in our programs receive numerous benefits including:

- Better Grades
- Improved Academic Skills
- Increased Confidence and Motivation
- Best Possible Standardized Test Scores

Visit us on the web - www.MathAdvantage.org



2008 - 2009 academic year

16 Prescott Street

Wellesley Hills

(781) 237-0899

Math Advantage provides three different program options to accommodate the individual needs of our students. Each learning program is taught by an experienced and caring educator. Our instructors are certified teachers or professionals who have expertise in the area of mathematics and at least three years teaching experience in schools or colleges. Please read each program's description to determine which model is best suited for your child. Our educational staff is also available to assist you with this decision. Please call if you have any questions.

Personalized Instruction Programs

Math Advantage uses a four step approach to deliver fast results:

- Step 1: The educational directors of Math Advantage will meet with you and your child to discuss goals and assess your child's skill level.
- Step 2: We will create a learning plan designed to meet the goals in a reasonable amount of time. The learning plan is reviewed by you and your child.
- Step 3: Your child begins the learning program, working closely with his or her instructor to reach the goals that were set.
- Step 4: Progress is reviewed and new goals are created.

| Personalized Programs | |
|---|-------|
| Schedule | |
| Flexible scheduling includes evening and Saturday times | |
| Tuition | |
| Private Instruction | |
| 8 sessions | \$760 |
| Semi-Private Instruction | |
| 8 sessions | \$520 |

The Personalized Instruction Program is available in two different formats:

- **Private Instruction**
Your child will work privately with an instructor for one hour each week. Students may participate in a personalized program of study created by Math Advantage or they may use their school work as the focus of each session.
- **Semi-Private Instruction**
Your child will work with an instructor for one hour each week. We will either structure a personalized program of study or use your child's current work in school. The only difference between this learning option and private instruction is the presence of one other student in the classroom. Semi-private instruction provides the advantages of a private tutor at a **significant savings** to parents.

Small Group Math Classes

Math Advantage offers small group math instruction for grades 1 through 10. Students meet for 1 hour and 15 minutes each week. Our **maximum student to teacher ratio is 5:1** and is often lower. Generally, students attend the session that corresponds to their grade level at school. However, math skills can vary significantly and it is important to match your child's ability with an appropriate level of challenge. New students will be given a placement test upon request.

The math concepts targeted at each level reflect state and national goals for mathematics instruction. Class time at Math Advantage consists of traditional instruction, hands-on investigations, math worksheets, problem solving, and math skill-building games. Homework is an essential part of our program and practice worksheets must be completed before your child's next math class. Informal assessment tests are given periodically to monitor progress.

Course descriptions, payment and scheduling information for group classes can be found on the next two pages.

Math Assessment

Math Advantage will assess your child's math skills upon request. Our comprehensive math assessment identifies your child's strengths and weaknesses in both computation and problem solving.

Fee: \$75 (applied to tuition if your child enrolls in a math program for one 8 week session - new students only)

Elementary Math Classes Descriptions and Schedules

Grade 1 Math Program

Students in grade 1 will work toward mastering addition and subtraction facts through 20. A variety of formats will be introduced including word problems, missing addends and function machines. By the end of the program, students will add and subtract two digit numbers with ease. Students apply their computational skills to problems in geometry, money, graphing and measurement. Word problems are introduced and students learn to identify important key words.

Tuition for Math Classes

| | |
|-----------|------------------------|
| 8 classes | \$360 |
| Full year | \$1340 (save \$100) |

Grade 2 Math Program

The main computational skills in grade 2 are addition and subtraction of two and three digit numbers with regrouping. Students will solve increasingly difficult word problems and continue to practice basic skills through problems in geometry, time, money and measurement. Multiplication is introduced as repeated addition and applied to area problems. The concepts of division and fractions are explored in terms of equal groups. One and two step problem solving methods are practiced throughout the program.

Schedule Options

| | |
|----------------|-------------|
| Grade 1 | |
| Wednesday | 2:15 - 3:15 |
| Friday | 3:30 - 4:30 |

| | |
|----------------|--------------|
| Grade 2 | |
| Monday | 3:30 - 4:30 |
| Thursday | 3:30 - 4:30 |
| Friday | 3:30 - 4:30 |
| Saturday | 9:00 - 10:15 |

| | |
|----------------|-------------|
| Grade 3 | |
| Monday | 3:30 - 4:45 |
| Tuesday | 4:50 - 6:05 |
| Wednesday | 3:30 - 4:45 |
| Wednesday | 4:50 - 6:15 |
| Thursday | 3:30 - 4:45 |

| | |
|----------------|--------------|
| Grade 4 | |
| Monday | 3:30 - 4:45 |
| Tuesday | 3:30 - 4:45 |
| Wednesday | 3:30 - 4:45 |
| Wednesday | 4:50 - 6:15 |
| Thursday | 3:30 - 4:45 |
| Saturday | 9:00 - 10:15 |

| | |
|----------------|-------------|
| Grade 5 | |
| Monday | 4:50 - 6:05 |
| Tuesday | 3:30 - 4:45 |
| Tuesday | 4:50 - 6:05 |
| Wednesday | 3:30 - 4:45 |
| Thursday | 4:50 - 6:05 |

Start dates for all classes can be found on the back cover.

Grade 3 Math Program

The main objectives for students in grade 3 include mastery of multiplication facts, single digit multiplication of two and three digit numbers with regrouping and the application of multiplication to solving a variety of problems. The relationship between division and multiplication is emphasized and students will learn to divide multi-digit numbers by single digit divisors. Fraction and decimal work will include identification of equivalent numbers, comparing quantities and introductory computation. Algebraic ideas are introduced for the first time in grade 3.

Grade 4 Math Program

Students in grade 4 will sharpen their multiplication and division skills through word problems and mental computation. Fractions and decimals are explored in greater depth. Students learn to add and subtract fractions with unlike denominators. Computation with decimals includes all four basic operations. Geometry topics include lines, angles and polygons and students will learn to calculate the area and volume of a variety of complex shapes. Algebraic reasoning skills are more fully developed and are applied to graphing simple functions.

Grade 5 Math Program

Students work extensively with fractions and decimals in the fifth grade program. Addition, subtraction, multiplication and division of fractions and decimals are practiced in a number of challenging ways. Ratios and percentages are taught as extensions of fractions and decimals. Students will learn to move easily from one number representation to another. Geometry topics include circles, triangles, and irregular polygons. Students will work with increasingly complex shapes while solving problems dealing with perimeter, area and volume.

Middle and High School Math Classes Descriptions and Schedules

Middle school and high school are exciting times for students - new schools, new friends and new challenges. To help make a smooth transition, Math Advantage has developed a full line of courses specifically tailored to the needs of older students. Our upper level math classes offer five different challenges to accommodate the wide range of ability demonstrated by students in this age group.

Math Concepts for 6th Grade Students

6th grade students explore fraction, decimal, ratio and percentage concepts in greater depth. New geometry topics include surface area, corresponding angles and geometric nets. The construction of geometric figures is introduced for the first time and the concept of ratio and proportion is applied to triangles. Algebra is introduced more formally and students learn to solve linear equations with one variable. Algebraic functions are introduced and students explore the relationship between functions and their graphical representations.

Math Concepts for 7th Grade Students

7th grade students explore math concepts in preparation for Algebra I. Monomial, binomial and polynomial expressions are introduced and students learn how to perform simple computation steps with each. Formal mathematical rules are learned and applied to exponents, radicals and basic proofs. Linear and non-linear functions are explored through graphing and number patterns. Geometry is covered in greater depth with a special emphasis on right triangle relationships and three dimensional shapes.

Algebra I for 7th and 8th Grade Students

This comprehensive course provides a thorough introduction to key concepts in Algebra I. Students will learn to solve increasingly challenging problems using a variety of algebraic methods. Topics of study include systems of equations, factoring trinomials, quadratic equations, linear graphs and inequalities. Number sense is advanced through work with radicals, negative integers and exponents. Word problems include rate, mixtures, money, interest and geometric relationships.

Geometry for 8th and 9th Grade Students

Our geometry program places a strong emphasis on proofs and reasoning. Students learn to use deductive reasoning to prove relationships in a variety of complex shapes. Triangle, circle and quadrilateral geometry are explored in great depth using a wide variety of tools, including the award winning software, the Geometer's Sketchpad. Rather than simply memorizing rules and definitions, students perform constructions, measure figures, observe patterns, discuss their findings and formulate their own geometric conjectures.

Algebra II for 9th and 10th Grade Students

Learn to identify, graph, transform, invert and compose a variety of functions, from the simple quadratic to the most daunting logarithm. Explore matrix algebra and how it is used to solve equations with three or more variables. Combinations, permutations and probability are studied in depth and applied to a variety of interesting problems. Circles, ellipses, and hyperbolas are introduced and their graphs are studied in detail.

Class Schedule

Grade 6 Math Concepts

| | |
|-----------|---------------|
| Monday | 4:50 - 6:05 |
| Tuesday | 3:30 - 4:45 |
| Wednesday | 2:00 - 3:15 |
| Thursday | 4:50 - 6:05 |
| Saturday | 10:30 - 11:45 |

Grade 7 Math Concepts

| | |
|-----------|-------------|
| Monday | 4:50 - 6:05 |
| Tuesday | 4:50 - 6:05 |
| Wednesday | 4:50 - 6:05 |

Algebra I

| | |
|-----------|-------------|
| Tuesday | 4:50 - 6:05 |
| Wednesday | 6:15 - 7:30 |
| Thursday | 4:50 - 6:05 |

Geometry

| | |
|-----------|-------------|
| Wednesday | 6:15 - 7:30 |
| Thursday | 6:15 - 7:30 |

Algebra II

| | |
|---------|-------------|
| Monday | 6:15 - 7:30 |
| Tuesday | 6:15 - 7:30 |

Please see back cover for start dates.

Tuition

| | |
|----------------|--------------|
| 8 week session | \$360 |
| Full year | \$1340 |
| | (save \$100) |

Tutoring Programs

Upper level students may schedule private or semi-private tutoring sessions in math or writing. Descriptions of these programs can be found in the front of this booklet. Small group writing classes are also available.

Test Prep Programs

Students can prepare for the ISEE, SSAT, SAT I and SAT II exams at Math Advantage. Please see page four for more information.

ISEE, SSAT, SAT I and SAT II Test Prep

Math Advantage offers the finest, most comprehensive preparatory programs for the ISEE, SSAT, SAT I and SAT II exams. Our intense, one-on-one training sessions are led by experienced educators who excel at creating confident, well-prepared and academically proficient students.

Outstanding Results

We are certain you will not find a better test prep center than Math Advantage. Why? Simply put, no one cares as much as we do! Our top priority is making sure your child gets the best test scores possible. This unparalleled level of dedication has tremendous results. Former ISEE and SSAT students are currently attending many of the best private schools in the Boston area. Our SAT students have enrolled in the country's most selective colleges and universities.

A Straight Forward Approach

High test scores can be achieved by most students through the proper balance of content knowledge and test taking skills. During our rigorous test prep program, students refine computational and problem solving skills, develop an extensive vocabulary, and practice writing cohesive, grammatically correct essays. We avoid test taking gimmicks and strategic tricks in favor of a structured program of learning and practice.

Individualized Instruction

We know students have unique skills and abilities that are best developed through personalized attention. Why spend valuable class time reviewing material your child may already know? Our instructional model enables us to create programs that target each student's specific strengths and weaknesses. Class time is better utilized and sessions are more productive. In addition, individualized instruction eliminates distractions from fellow classmates and reduces teacher response time. A private classroom setting also makes it easier for students to ask questions and acknowledge mistakes.

A Winning Team

The directors of Math Advantage have had tremendous success preparing students for high school and college admissions exams. Each has had more than 10 years experience in the field of test prep. They know the content of each test thoroughly and, more importantly, know how to transfer that knowledge to their students. Together, they form an unbeatable team and will provide a high quality test prep program for your child.

What Can You Expect From Our Test Prep Programs?

Initial Diagnostic Test

Our test prep programs begin with a complete skills evaluation. We analyze test taking ability, math and verbal skills and writing style. The diagnostic test helps us set appropriate goals for your child.

Math and Verbal Fundamentals

We thoroughly review all math and verbal concepts related to your child's test. Gaps and weaknesses are immediately identified and corrected.

Test Taking Strategies

We provide students with the latest and most effective test taking strategies for each section of the test. Strategies are practiced during each session and are emphasized on homework assignments.

Home Practice

Homework is an essential part of our test prep programs. Analysis of homework assignments helps us evaluate progress and refine your child's program of study. Practice is the key to a high test score and is a mandatory requirement.

Final Practice Test

Students take a full length practice exam at the end of each test prep program. We simulate the conditions of an actual test by adhering to time limits, using computer response sheets and by following the exact order of the test.

Please call Math Advantage to discuss how we can help your child achieve top scores.

Test Prep Rates

Comprehensive Package

includes ten private hour long lessons, a diagnostic assessment, and a full length practice test given under simulated exam conditions.

Tuition: \$1250

Individual Classes

Students may opt for one or more review sessions rather than our comprehensive test prep program.

Tuition: \$150/class

Reading and Writing Programs

Preschool Reading Program

Young children develop pre-reading skills in this delightful course that integrates phonics, vocabulary, literature and fine motor skills. Our preschool storybooks contain large, colorful illustrations that engage and excite young children about the world of reading. Your child will recognize the sounds that single letters and letter combinations make. High frequency words help your child build a sight word vocabulary and pencil control is developed through letter tracing exercises.

Reading Programs K-1

Kindergarten and first grade children learn the fundamentals of early reading through a superb program that integrates phonics, vocabulary, writing and reading comprehension. Your child will learn to decode new words, build an extensive vocabulary and, most importantly, your child will learn to read. Our reading program combines direct teaching with guided practice and independent work. Reading selections include a variety of appealing subjects and short chapter books. Small classes enable our instructors to work with each student individually at his or her own pace. Our reading program supports and extends instruction students receive in their regular school programs.

Writing Workshops

Students learn paragraph structure and development while improving spelling, grammar, vocabulary and punctuation skills. The writing process (pre-writing, drafting, revising, proofreading and publishing) will be the main focus. Students will have an opportunity to practice these steps through a number of interesting writing assignments. A variety of writing styles will be explored although narrative (stories) and expository (essay) writing will be emphasized. Students learn how to build solid paragraphs as well as organize their thoughts to create compelling essays and vivid stories.

| | |
|----------------------|--------------------------------|
| Writing Workshop I | Students in Grades 2 and 3 |
| Writing Workshop II | Students in Grades 4, 5, and 6 |
| Writing Workshop III | Students in Grades 7+ |

Programs for Little Scholars

Personalized Learning Programs

Math Advantage will design a program for your little scholar that complements your child's regular preschool activities. Children develop strong reasoning and communication skills through a variety of fun and engaging lessons. Our curriculum reinforces the basic skills your child is currently learning in school and adds an additional challenge to promote fast academic advancement. Choose from topics including phonics and reading, number sense and early math skills, computer technology, and logic. Each 60 minute session is a careful combination of guided learning activities and independent practice.

| | |
|--|------------------------|
| Reading Schedule | |
| Preschool Reading | |
| Thursday | 2:15 - 3:15 |
| Friday | 2:15 - 3:15 |
| Kindergarten Reading | |
| Monday | 2:15 - 3:15 |
| Friday | 3:30 - 4:30 |
| Grade 1 Reading | |
| Wednesday | 2:15 - 3:15 |
| Friday | 4:30 - 5:30 |
| Writing Schedule | |
| Writing Workshop I | |
| Friday | 4:30 - 5:30 |
| Writing Workshop II | |
| Friday | 4:30 - 5:30 |
| Saturday | 9:15 - 10:15 |
| Writing Workshop III | |
| Monday | 6:15 - 7:15 |
| Saturday | 10:30 - 11:30 |
| Tuition | |
| 8 weeks | \$320 |
| Full year | \$1180 (save \$100) |
| Start dates can be found on the back cover. | |

| | |
|--|-------|
| Young Scholars | |
| Personalized programs for preschool and pre-k students | |
| Tuition | |
| Private Instruction | |
| 8 classes | \$760 |
| Semi-Private Instruction | |
| 8 classes | \$520 |
| Start dates can be found on the back cover. | |

Computer Programming Workshops

Computer programming is quickly becoming an essential 21st century skill. As technology becomes more pervasive, the ability to communicate with computers and to use computers as a means of creativity is critical for a successful future. Communication and creativity are achieved through programming languages. Students as young as kindergarten can easily learn the fundamental concepts and logical thought processes associated with most simple programming languages.

Our computer programming workshops introduce students to key ideas such as sequential thinking, variables, loops, and functions through a series of fun challenges. To accommodate the depth of this type of project based learning, programming classes are 90 minutes long.



Programming Workshops

Programming with Roamer

Children in the primary grades learn programming by interacting with a floor robot named Roamer. Roamer is equipped with a simple but powerful version of the LOGO programming language created by Seymour Papert of MIT. Programming is accomplished by selecting a series of symbols on Roamer's shell. Children can program Roamer to move in a straight line, turn, draw, and play a tune. In the process, basic programming concepts, problem solving, and mathematical ideas are learned.

Recommended for grades K - 2

Programming with Scratch

Upper elementary school students will learn to program with Scratch, a sophisticated and versatile programming environment developed by Mitchel Resnick of MIT. Creativity is a key part of this workshop and the sky's the limit with Scratch. Its drag and drop interface enables students to design a range of projects, from programmable stories to simple games. Programming concepts include variables, loops, conditional statements, functions, timers, and event listeners.

Grades 3 - 5

Robotics

This workshop combines building blocks, motors, and gears with the powerful programming environment of Microworlds, an advanced version of Papert's LOGO computing language. Hands-on creativity abounds in this exciting workshop. Students build anything they can imagine, from amusement park rides to robotic creatures. They will then write a program in Microworlds that tells their creations what to do.

Grades 3 - 5

Flash Animation

Flash is a powerful, professional development platform for everything from desktop applications to complex games and multimedia presentations. This workshop provides an introduction to the animation capabilities of Flash as well as basic programming constructs. Students will brainstorm project ideas, create a storyboard, and develop their ideas in Flash.

Grades 6 - 8

Workshop Schedules

Programming with Roamer

Wednesday 12:30 - 2:00
4 weeks Jan 7 - Jan 28

Microworlds Robotics

Wednesday 12:30 - 2:00
4 weeks Feb 4 - Mar 4

Program with Scratch Part I

Sat 9:30 - 11:00
4 weeks Jan 7 - Jan 28

Program with Scratch Part II*

Sat 9:30 - 11:00
4 weeks Feb 4 - Mar 4

Flash Animation Part I

Sat 12:30 - 2:00
4 weeks Jan 7 - Jan 28

Flash Animation Part II*

Sat 12:30 - 2:00
4 weeks Feb 4 - Mar 4

*Part II sections of Scratch and Flash Animation workshops will either be a continuation of Part I with more advanced concepts or a repeat of Part I depending on participant interest.

Tuition**

\$240 6 hour course

** Students may also register for private programming classes. Tuition is \$570 for 6 hours of instruction.

Start Dates for Math Advantage Programs

Math Advantage classes are year long programs that begin in September and end in early June. Exceptions are noted in the program descriptions. To ensure your child makes optimum progress, we recommend beginning the program as early in the year as possible. However, students are always welcome to join in at any point during the year.

| Class Day | Saturday | Monday | Tuesday | Wednesday | Thursday | Friday |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Start Date | September 13 | September 15 | September 16 | September 17 | September 18 | September 19 |

Math Advantage will be closed on the following days:

October 11 - 13, November 27 - 30, December 23 - January 4, January 19, February 16, April 20, May 23 - 25

*March closing dates to be announced

**We will be open during February and April vacation weeks for private school students

Registration, Payment, Cancellation and Refund Policies

Registration Policy

- Registration forms and payment must be submitted before attending any classes or tutoring sessions at Math Advantage.
- Families opting to pay quarterly or in full by credit card and families that opt to pay on a quarterly basis by check must supply the requested credit card information on the registration form. Math Advantage can not schedule tutoring sessions or hold spaces in our classes without this information on file. Families paying in full by check for the year are not required to supply credit card information.

Payment Policy

Prior to the first class, you may elect to pay for the entire program or make 4 equal payments over the program's duration. Payment made for the entire program ahead of the first class results in a substantial savings that is noted next to each course description. Interval payments must be received on or prior to September 10, November 10, January 10 and March 10.

Payment by Credit Card: Class and tutorial fees are charged to credit cards eight sessions at a time prior to the start of each eight week unit. Please let us know if you prefer to pay for the program in full and receive the accompanying discount.

Payment by Check: Checks must be made payable to Math Advantage for an amount equal to the full tuition or one 8 week installment. Please note that we must have credit card information on file if you choose to pay on a quarterly basis by check. Payments that are not received prior to the start of a new session will result in a charge to your credit card. If we receive your check after the charge has been made, we will credit your account at your request. We do not require credit card information from families who opt to pay the full tuition amount by check prior to the start of the program.

A sibling discount equal to 10% of the lesser tuition is provided to families enrolling more than one child. This discount does not apply to siblings enrolled in a semi-private program.

Cancellation and Refund Policy

Tutoring Sessions: One-on-one classes (private and semi-private personalized instruction programs, test prep, or tutoring) that are canceled before 6 p.m. on the day prior to the scheduled class will not result in a charge to your account. However, only one cancellation per 8 class session is permitted. Missed classes under any other circumstances will be charged.

Group Classes: If your child misses a group class such as math, reading, or writing, you will not be refunded for that class. Instead, we will do our best to provide a make-up class on another day if an equivalent course is available and there is room for an additional student in that class. The make-up class must be completed within one week of the missed class. Only one make-up class is permitted per eight week session. Students may not attend another section for a make-up class without the prior consent of Math Advantage.

Group classes will only run if a minimum of three students have registered. Scheduled classes that do not have this minimum number may be canceled or converted to a semi-private personalized instruction program. Students will have the option to enroll in another section or to participate in the new format.

Math Advantage Registration Form

(781) 237- 0899

Student's Name:

Date of Birth:

Parents' Names:

Grade:

Home Address:
(please include town and zip code)

Phone:

Email:

Medical Conditions:

Food Restrictions:

I. Please complete this section if you are registering for any scheduled small group class.

| Program Name | Day | Time |
|--------------|-----|------|
| | | |
| | | |
| | | |

II. Please complete this section if you are registering for private/semi-private instruction or test prep.

Step 1: Place a check mark next to the program of your choice and circle the corresponding subject.

| | | | |
|---|------|---------|------------|
| Personal Instruction Program/Private | math | reading | writing |
| Personal Instruction Program/Semi-Private | math | reading | writing |
| Test Prep | ISEE | SSAT | SATI SATII |

Step 2: Choose the best three days and times your child can attend sessions.

| Times | Mon. | Tues. | Wed. | Thurs. | Fri. | Sat. Times | Sat. |
|-------------|------|-------|------|--------|------|--------------|------|
| 3:30 – 4:30 | | | | | | morning | |
| 4:30 – 5:30 | | | | | | 12:30 – 1:30 | |
| 5:30 – 6:30 | | | | | | 1:30 – 2:30 | |
| 6:30 – 7:30 | | | | | | 2:30 – 3:30 | |

Instructions
Place the numbers 1, 2 and 3 in the day and time boxes that correspond to your first, second and third choices. We will try our best to give you your first choice but cannot guarantee that time will be available when we receive your registration form.

III. Please complete the following section.

I have read the registration, payment, cancellation and refund policies of Math Advantage and agree to their terms.

Parent Signature:

Credit Card Type: Visa Master Card AmEx

Account Number:

Expiration Date:

Exact Name on Card:

Checks are payable to:
Math Advantage
16 Prescott Street
Wellesley Hills, MA 02481