



## Middle School Summer Math Program

Students entering Sixth Grade should have mastered all basic facts, understand and identify place values to hundred thousandths, and be proficient in adding, subtracting, and multiplying decimals and fractions.

Middle School students are expected to complete a summer math log of learning experiences. Students should select **at least three activities from each category** to review concepts, improve computation, and find a challenge. Students are encouraged to spend at least 400 minutes during the summer practicing their math skills. Attach any charts, graphs or worksheets to your log. They will be collected on the first day of school.

Categories and suggestions:

- I. Play games with other people. Board games such as *Monopoly*, checkers and chess require logic and/or math skills. *Set*, *24*, *Sudoku*, and many card games require strategy or counting.
- II. Practice with flashcards, computer games, and worksheets to increase speed and accuracy in working with basic facts.
- III. Worksheets, computer games, and word problems that require students to add, subtract, multiply, and divide without a calculator provide needed practice. Include operations with fractions and decimals.
- IV. Real life situations often require math. Measuring and adjusting recipes, figuring a checkbook, determining a trip's costs and mileage are all opportunities to use math. Compare the costs of driving or flying for a vacation trip. Graph swim times or the price of gasoline each week. Determine tips, change and taxes on purchases. Turn in any charts, graphs, or work related to a real life activity.

Below is a list of websites that offer practice, lessons, and challenges. Students should choose a level that will support learning. Increase the level if there are never errors. Decrease the level if it is too difficult.

<http://aaamath.com/> Decimal subtraction (horizontal)  
Decimal division

Fractions

Ratio, expressions, exponents, integers, geometry, properties

<http://www.mathgoodies.com/>

Fractions, integers, pre-algebra, order of operations, percents, probability, circles

<http://coolmath4kids.com/>

Long division lesson, *Number Monster* for long division, many other topics

<http://mathisfun.com/>

<http://mathplayground.com/>

[http://figurethis.org/math\\_index.htm](http://figurethis.org/math_index.htm)

Story problems and brainteasers

<http://mathforum.org/pows/>

Problem of the week

<http://www.funbrain.com/>

There are many other excellent sites.

Students who have not mastered specific skills may benefit from work in a grade level workbook which may be purchased from a bookstore.

The Tri-C summer workbooks may be ordered from Summerskills.com.

Copies of the current textbook may be borrowed during the summer.

# Middle School Math Log

**Student Name** \_\_\_\_\_

Date	Type of Activity	Specific Activity Description	Time Spent	Parent's Initials
	I			
	II			
	III			
	IV			

Total time \_\_\_\_\_

My child has completed the number of minutes stated above practicing math activities. \_\_\_\_\_

Parent's signature