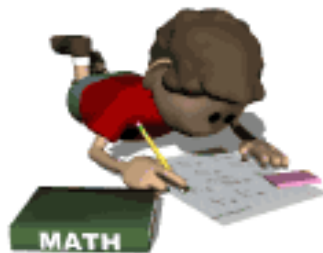


Winnisquam Regional Middle School

Summer Math Practice
2010

Keep your math skills sharp!!!



Summer is a time for our students to take a much anticipated and needed break from the daily academic routine; a time to relax and refresh. Likewise, it also offers a time for renewal and preparation for the upcoming school year. Throughout this past school year, our students have deepened their understanding of many mathematical topics and have learned numerous new skills and concepts. In order for these hard-earned skills to be at their fingertips when they return in August, it is important that they have opportunities to refresh and practice math through these coming summer weeks. In order to help maintain and improve these skills, ***we are requiring all middle school students to complete a summer math log.***

Students are asked to complete a minimum of 30 minutes per week of some type of math activity. Ideas for these activities are listed on the accompanying pages. Every week students should choose an activity to complete and describe what they did on the included log. Each activity may only be chosen once - please note that each website may be counted as a different activity.

The log will be due the 3rd day of school and will count as 8 separate homework assignments (each entry is worth a homework).

Although not required, we would love to see some of the work that students complete! Please consider bringing in any of the work that you do!



Math is an everyday activity - look for it everywhere!!!

IDEAS FOR MATH ACTIVITIES

An activity may only be done once! Each website counts as a different activity.

- Multiplication/Division flashcard practice
- Help with the family budget or balancing checkbook
- Cook from a recipe paying attention to measurements: rewrite a recipe to serve twice as many people, half as many, two thirds as many, etc...
- Design a room, house, garden, etc... using measurements and/or a scale drawing
- Build anything - focusing on the measurements and the shapes being used
- Calculate tax and tip when eating out - be sure to list your calculations in your log
- Estimate total bill costs, distances, etc... and compare to actual costs - be sure to list your calculations in your log
- Plan a vacation or evening out - include all costs, taxes, tips, mileage, gas, etc... be sure to list your calculations in your log
- Make a collage of how math is used in the everyday world -
- Find examples of math/geometry in nature - list what you found in your log
- Find the best buy of items by calculating unit costs - list items and calculations in your log
- Create a "back to school supply list" with costs of items and total costs
- Research how math is used in different careers - list the careers in your log
- Research a famous mathematician - list who you researched and what you found in your log
- Plan a road trip - find the route to get there, distances, amount of gas needed, cost of gas, average speed, time it will take to get there, etc...
- Conduct surveys (favorite ice cream flavor, best movie, beach or pool, etc) and create graphs for your results - explain your results in the log
- Take your measurement at the beginning and end of summer and graph the results
- Sudoku puzzles/Logic puzzles/Brainteasers
- Find the measurements of objects using different units of measure - list the items and calculation in your log
- Read a book that involves a math concept - be sure to include the title, author and description of the math found in the book in your log
- Write a story that would help explain a math topic - list the math topic(s) in your log
- Come up with a song, poem, or other mnemonic device that would help someone remember a concept you learned in math this year - list the math topic(s) in your log and describe what you did
- Make a scrapbook that highlights the main topics of study from this year in math
- Create a one page summary of last year's math notes
- Track the temperature by graph through the summer
- Record how long it takes for different people to do something - find mean, median, mode, range and graph the data in different ways - be sure to list what you surveyed and your results in the log
- Play some games - most games involve logic and/or math skills - examples: Monopoly, Clue, Checkers, Chess, Blokus, Cribbage, Mastermind, various card games, Dominoes, Yahtzee, Battleship, Life, the list goes on and on...
- Play a Nintendo DS or other video game that involves logic/math: Brain Age, Big Brain Academy, Brain Challenge, Tetris, Personal Trainer: Math, Math Play, Learn Math, Math Blaster, just to name a few
- View some math video online and then create your own - list what videos you watched and what type of video you created
- Design a game that would include math - be sure to list in your log what math topics were covered in your game and a brief description of how to play (Note that you can play the game next week for a new activity)
- Study a new math concept and prepare a lesson to help teach others about it - explain the topic that you learned and how you would teach it within the log
- Students coming out of Algebra and Pre-Algebra can work on chapters on www.classzone.com - pick the book that you used last year and review some of the chapters. Be sure to list in your log which chapters you reviewed and what you did.
- Spend time on some math websites - there are lots of math practice games out there! Please see list on the next page.

WEBSITES

These are only a few of the hundreds of sites out there - feel free to explore and find more! We understand that everyone may not have internet readily available at home, please know that the public library offers free use of internet.

❖ www.freeworksheets.net

This site allows you to choose topics to practice and creates free worksheets for you to print off and complete. Answer keys are included in order to self grade.

❖ <http://games.funschool.com/game.php?q=1116&category=58&level=6>

Help the Martians repair their ship by solving the powers of multiplication problems.

❖ <http://www.learningwave.com/abmath/>

This in-depth story game calls on you to answer math problems as you try to infiltrate the Absurd Math Dimension. Read carefully! The details for each problem are scattered around the pages

❖ <http://www.nrich.maths.org.uk/public/index.php?screenres=1024>

Different topics for different months. Go exploring to see what you find! You can submit your answers for each problem.

❖ <http://www.figurethis.org/index.html>

Try some of these fun, extended challenges using mathematics.

❖ <http://www.stfx.ca/special/mathproblems/welcome.html>

Fun and challenging math word problems for grades 5 - 12.

❖ <http://www.scienceu.com/geometry/>

It's all about shapes, patterns and symmetry!

❖ <http://www.learningwave.com/abmath/7cups/index.html>

This is a VERY challenging challenge! Click on one of the 7 rune symbols around the gate and solve the riddle inside using your geometric knowledge.

❖ <http://mathforum.org/k12/mathtips/beatcalc.html>

This site features a full range of math tricks based on number patterns to help students make quick calculations.

❖ <http://www.prongo.com/math/index.html>

Games, brainteasers, downloads to help practice your skills - choose the appropriate level for you

❖ www.funbrain.com

A variety of games and activities to help practice your math skills. Choose the topic and level that is appropriate for you.

❖ www.mathplayground.com

A variety of games and activities to help practice your math skills. Choose the topic and level that is appropriate for you.

❖ www.mathisfun.com

A variety of games and activities to practice your math skills. Choose the topic and level that is appropriate for you.

❖ www.aaamath.com

Lessons on hundreds of mathematic topics - brush up on some skills or learn new ones - practice problems are here to try also.

❖ www.aplusmath.com

Interactive flashcards, games and printable worksheets on basic math skills.

❖ www.coolmath.com

A variety of games and activities to practice your math skills. Choose the topic and level that is appropriate for you.

SUMMER MATH LOG

WEEK OF JUNE 28 - JULY 4

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

WEEK OF JULY 5 - JULY 11

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

SUMMER MATH LOG

WEEK OF JULY 12 - JULY 18

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

WEEK OF JULY 19 - JULY 25

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

SUMMER MATH LOG

WEEK OF JULY 26 - AUGUST 1

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

WEEK OF AUGUST 2 - AUGUST 8

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

SUMMER MATH LOG

WEEK OF AUGUST 9 - AUGUST 15

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature

WEEK OF AUGUST 16 - AUGUST 22

What did you choose to do for math this week?

Time Spent On Activity (or Activities): _____

Include the math topics that you worked on and a brief description of what you did:

*I confirm that
this information
is accurate:*

Adult Signature