



Name _____

Grade _____

Middle School Summer Math 2020

For students entering grades 7 & 8
A School Year to Remember



Parents and Students,

I'm sure after dealing with the cyber learning of the last few weeks, the last thing you want to think about is 'Summer Math Minutes'. However, the evidence shows that maintaining and improving math skills over the summer is just as important as summer reading. This year I am asking that all middle school students complete a summer math log. Students can participate in **several different types of math activities** listed on the next page. They need to do a variety of activities. Just doing math games won't cut it. They will log the type of activity, a brief description of the activity, and the amount of time spent on the activity.

The parent will need to initial each activity.

There are more than ten weeks of summer! Students are required to complete **300 minutes** of time doing math activities. The time can certainly be spread out to best fit your schedule, but there should be at least one entry per week. Students should spend **about 30 minutes each week** with their math activities. Students will be given a math grade for their math class based on the number of minutes completed. For example, 300 minutes will be 100%! 250 minutes will be 83%, etc.

The categories have changed a little for this summer compared to previous years. I think the Math Log will be a little more 'User-friendly', too!

The next page will explain the different activities, web-sites needed, and minutes suggested. All students entering grades 7 and 8 will have the same basic packets, however the skills will vary. Your new Math Teacher will be looking for your results!

Good Luck and God Bless Your Effort!

The Math Log is due the first day of school (*August 24th*)! Don't forget it!

Mrs. Diane Memmi

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Middle School Summer Math Activities 2020

Please record your summer work on the Math Log. Thank You! Your 300 minutes should be divided among the 4 categories! The times suggested are approximate, not mandatory!

A. Basic Facts: ZETAMAC <https://arithmetic.zetamac.com/> (30 Minutes)

Arithmetic Game – On-Line Speed Drill that helps you improve your accuracy and fluency of basic math facts for adding, subtracting, multiplying or dividing. I would suggest spending, at least, **5-10 minutes per week** practicing quick computations. Set the range from 2-12 in each area and practice the 2-minute drills! Keep track of your scores and progress on your Math Log!

B. Learn, Review, Reinforce: MATH ANTICS (90 Minutes)

<https://mathantics.com/auth/site-share/wWYuiq3069tZubw>

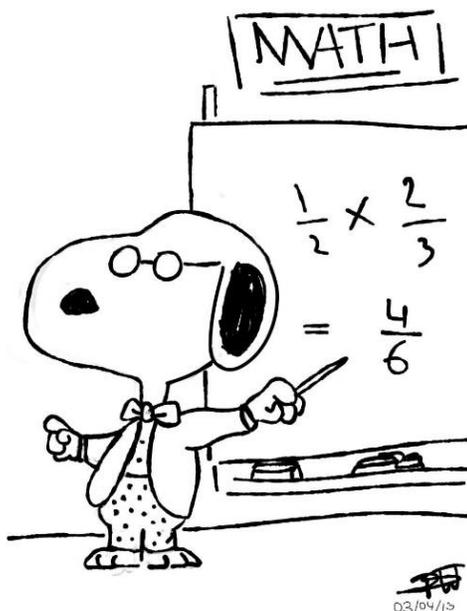
Fun videos to learn or review skills and concepts – Watch Rob instruct you on various math skills and concepts! Any and all videos are free to watch, but if you **use the above link**, you will have access to the ‘Exercise Videos and Worksheets’, too! I have also attached this link on Rediker. I have listed skills that I would like each grade level to practice. Watch any videos that corresponds to the skill. After the video, print out the ‘Exercise worksheet’ to work along with the ‘Exercise video’. Of course, you can watch any or all of the videos!

C. Learn, Review, Reinforce: IXL <https://www.ixl.com/> (90 Minutes)

Personalized learning for Math, Language Arts, Science, Social Studies and even Spanish – All students are familiar with IXL and have used the site for Math and their other subjects. You can use the grade level list provided for specific skills or explore and reinforce any math skills and concepts.

D. Have fun while you learn: Board games, puzzles, cards, etc.: GAMES (90 Minutes)

Many board games require students to use logic and/or math skills. Consider games like Monopoly, checkers, chess, cribbage, various card games, etc. Any game that requires counting and/or strategies would count. Put together a challenging puzzle with your family! **These would be hands-on activities done with other people. Not computer or video games.**



7 th Grade Skills	8 th Grade Skills
Order of Operations	Order of Operations
Distributive Property	Distributive Property
Multi-Digit Add., Sub., & Mult.	Operations with Integers and Absolute Value
Long Division	2D Shapes, Lines, Perimeter and Area
Fractions & Mixed Numbers –all operations	Circles- Circumference and Area
Decimals –all operations	The Pythagorean Theorem
Rates, Ratios , Proportion	Mean, Median and Mode
Mean, Median and Mode	Basic Probability
Basic Probability	Square roots and squared numbers
Square roots and squared numbers	Solving One-Step equations with Integers
Absolute Value	Graphing on the Coordinate Plane
Integers	Inequalities
Geometry – 2D Shapes	Slope and Rate of Change
Perimeter & Area	Percent and Percent Proportion
Points, Lines and Angles	Rates, Ratios , Proportion
Rounding to Decimal Places	Data Displays

