

Mathematical Calendar

Due: Friday, Aug. 18, 2023

Listed below are great everyday activities that you can do with your child any time to help build his/her number sense.

Students are required to complete 30 activities. Parent initials are required in each box when completed.

To print the calendar, click here:

[Mathematical Calendar](#)

<p>The next time you are in the car see who can find the license plate that has the highest product when you multiply the digits. What is the product of your car?</p>	<p>Rock, Paper Scissors! Play with somebody for 10 rounds. Keep track of how many wins and losses you each have. Play again.</p>	<p>What is your favorite room in your house? Estimate the area of a room in your house and then measure to find out how close you were. Try again in a different room.</p> <p>(area = length x width)</p>	<p>Happy Birthday USA! The USA declared independence from Great Britain in 1776. How many years ago was that?</p>	<p>Find out what time the sun rises and sets each day this week. Use that data to figure out how much daytime we get each day. Is the amount of daytime getting longer, shorter or staying the same? Continue to check about once a week to see if the pattern continues.</p>
<p>_____ Parent Initials/Date</p>	<p>_____ Parent Initials/Date</p>	<p>_____ Parent Initials/Date</p>	<p>_____ Parent Initials/Date</p>	<p>_____ Parent Initials/Date</p>

Cindy went to the beach and collected seashells. When she put them in 2 piles, 3 piles, and then in 5 equal piles she didn't have any extra. When she put them in 4 piles she had exactly 2 extra. How many seashells could Cindy have collected?	Speed Multiplication War! Each player turns over a card, first person to say the product of the 2 cards wins. If both say the product at the same time, then it is a war.	Toothpick Challenge – Can you make 5 squares out of 12 toothpicks? Can you make 4 triangles out of 9 toothpicks? Make up some of your own.	When I played “Speed Multiplication War” 2 cards had a product of 24. What 2 cards might have been turned over? Could I ever get 17 in this game? Why or why not? Will more even products come up or more odd products?	Use sidewalk chalk (or crayons/paper) to draw an interesting picture that includes at least 1 each of every kind of quadrilateral you can think of. Some ideas for your picture: an amusement park, a robot, a castle, a futuristic city.
_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date
Perpendicular and Parallel Hunt! Look around your house and neighborhood for perpendicular and parallel line segments. Predict which you will find more of. Were you right?	I made 24 water balloons and used a $\frac{1}{2}$ liter of water to fill each one. How many milliliters of water did I use to fill all 24 balloons? How about 240 balloons?	Tim solved a word problem and the correct answer was 7. What are 3 possible word problems Tim could have been solving?	Have somebody time you for 2 minutes. Count how many jumping jacks you can do. If you continued at the same pace for an hour how many would that be?	Roll 2 dice and multiply the numbers. Do this at least 25 times. Keep track of the products using a line plot graph. Do you notice any patterns in the results?
_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date

A firefly in my backyard glows 23 times every minute. How many times would he glow in 5 minutes? 10 minutes? 1 hour?	Close to 20! Deal 5 cards to each player (ace=10). Choose 3 of your cards and use any operation (x, ÷, +, -) to get close to 20. Closest to 20 wins that round. Tie, everyone wins.	Write your full name. What fraction of your name are consonants? What fraction are vowels? Compare the fractions with >, < or =.	The tallest sunflower in the world grew to be 9 yards tall. How many inches tall is the sunflower? How much taller is the sunflower than you?	Angle Hunt! Look around your house and neighborhood for things that form a right angle. Can you find any right angles in nature?
____ Parent Initials/Date	____ Parent Initials/Date	____ Parent Initials/Date	____ Parent Initials/Date	____ Parent Initials/Date
What is the sum of the dates of all the Wednesdays in July? Try to solve it mentally. What strategies did you use? Will you get the same answer in August?	Fold a paper in half. How many sections do you get? (2) Fold it twice you get 4 sections and 3 folds = 8 sections. How many sections will you get with 4, 5 and 6 folds?	A quarter is 1/16 of an inch thick. How many quarters would you have to stack to have a foot-high stack? How much would that be worth?	If you start at the number 1 and double it, then double your answer, and double that answer how high can you go mentally? What if you start at a different number?	How fast can you count from 0 to 44 counting by 4's? Have somebody time you. Try it again each day this week and see if your time improves. Try with other numbers.
____ Parent Initials/Date	____ Parent Initials/Date	____ Parent Initials/Date	____ Parent Initials/Date	____ Parent Initials/Date

Estimate the length of a popsicle stick in inches and cm. Measure it to find out how close you were. What outside might be an inch, foot and yard long? Measure to check.	Jen multiplied 2x3x10 and Madison multiplied 3x10x2. Will they get the same answer? Does this always work when multiplying 3 numbers? Why?	The world record for paper airplane flight is 226 feet 10 inches. How close can you come to breaking the record? The longest an airplane has stayed in the air is 29 seconds. Can you break that record? How close did you get? What shapes are in your paper airplane?	Play a board game involving numbers/money like Yahtzee or Monopoly.	Game of Pigs – Goal: Try to get to 100 first. Roll 2 dice and either use addition or multiplication. On a turn, a player rolls the dice repeatedly until either: A 1 is rolled or the player chooses to hold (stop rolling). If a 1 is rolled, that player's turn ends and no points are earned. If the player chooses to hold, all the points rolled during that turn are added to his or her score. When 2 1s are rolled, a player loses ALL their points.
_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date	_____ Parent Initials/Date

- The completed grid with the required signature will be worth a math class work grade at the beginning of the school year. No other documentation is needed.
- *Please practice basic math facts daily. Students will take 4 timed quizzes over basic facts (+, -, x, /) during the first week of school. The average of these quizzes will count as the first test grade in the first quarter.

Helpful resources for math information: www.mathisfun.com and www.khanacademy.com.

Math activities listed above can be substituted with one of your own math activities. Please list these activities on a separate sheet of paper and staple it to the worksheet.