

4th Graders are Wild About Learning!



Ways to support your child:

- Make a plan and help your child identify the areas of mathematics they would like to focus on over the summer.
- Recognize your child's strengths and always be encouraging to your young mathematician.
- Have fun solving problems together and creating your own new math challenges.



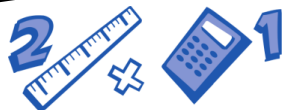
July

Directions: The purpose for the activities is to have **fun with math and see math throughout your day**. Encourage a “growth mindset” letting your child know that they have unlimited math potential and that it’s all about working hard. The calendar does not need to be returned in the fall, but we hope you complete many of the activities and use them to develop and explore your own ideas!

Math Tools You May Need: Blank paper or a spiral notebook for problem solving and creating, ruler (<https://printable-ruler.net/>), pencils, colored pencils, scissors

Week 1	What number am I? I am less than 25×10 and greater than 22×10 . I am a multiple of 5. I am an odd number. The sum of my digits is 10.	Take turns rolling a die three times with a partner. Each time find the product of the 3 numbers. Record your products and add them together until you reach 500.	What are all the ways you can make \$3.20 with coins?	64 people come over and sit at tables for 4. How many tables do you need? Write an equation and diagram to show your work. Share your thinking with someone.	Sort the laundry by owner, size, color, or item type. Which family member had the most socks? 	Measure your height in inches. Measure the height of a parent or guardian. Write and solve an equation to determine how much taller your parent or guardian is than you.
Week 2	Buy a small bag of M & Ms (or raisins, crackers, etc.). Pour them into a jar or bowl. Estimate how many there are. Count to see how close your estimate was.	Draw two cards from a deck of cards (number cards only). Find the sum and difference of the cards. Repeat this 10 times.	Look at advertisements for cars in the newspaper. Choose a car you like and round the price to the nearest thousand dollars.	Create a timeline for yesterday beginning at the time you woke up and ending at the time you went to bed. Include at least 8 events on your timeline.	Go to the store with a parent. Record the time you arrive and the time you leave. How much time did you spend in the store?	Estimate the weight of a handful of coins. Weigh them and calculate the difference between your estimate and the actual weight. Repeat this with 5 – 7 other items.
Week 3	Determine what time it is now. What time will it be in $\frac{1}{2}$ hour from now? Forty-five minutes from now?	Survey 10 – 15 people and ask them what their favorite animal is. Create a bar graph to show your results.	Roll two dice. Multiply the two numbers rolled and write an equation to show this. Repeat 10 times.	Flip a coin 10 times. Record the number of heads and tails. Multiply those two numbers. Have a friend do the same. Repeat 4 times. Which one of you had the highest product?	What is the highest and the lowest number you can make using the digits 1, 4, 8, 2, 3 and 7? You may use each digit only once in a number.	Make a list (with products up to 100) of all the multiplication facts that are doubles (ex. $2 \times 2 = 4$).
Week 4	Write an equation showing how 12 cookies could be shared between 2, 3, 4, and 6 children.	See how many ways you can divide 20 colored pencils or crayons equally. Write a division equation for each way you find.	Find the number of windows and doors in your home. Determine if these numbers are odd or even.	What time is it now? What time will it be in $6\frac{1}{2}$ hours? 15 minutes ago? 18 minutes ago?	Estimate how many pieces of cereal are in $\frac{1}{4}$ cup. Now estimate how many $\frac{1}{4}$ cups fill your cereal bowl. Check.	Play a board game or put together a puzzle.

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Websites to Explore:

- [Bedtime Math](http://bedtimemath.org/) (http://bedtimemath.org/)
- [Math Dictionary for Kids](http://www.amathsdictionaryforkids.com/) (www.amathsdictionaryforkids.com/)
- [Set Game](http://www.setgame.com/) (http://www.setgame.com/)
- [Which One Doesn't Belong?](http://wodb.ca/) (http://wodb.ca/)
- [Fraction Talks](http://www.fractiontalks.com/) (http://www.fractiontalks.com/)

August

Week 1	A farmer has 10 cows, 15 ducks and 12 pigs. How many legs are on the farm?	$4 \times 4 =$ $4 \times 5 =$ $4 \times 6 =$ $4 \times 7 =$ What clues help you? Skip count by 4s forward and backward to/from 100.	What number do you add to 74 to get 100? What two numbers could you add to 245 to get 300? $245 + \underline{\quad} + \underline{\quad} = 300$	Count the change an adult has this morning. Count the change an adult has this evening. What's the difference?	Beat the Clock! List 5 things you could do in 1 minute or less. Try each one. Were you successful?	Roll 2 dice together and multiply to find the product. Record. Do this 15 times. Create a bar graph with the results. What did you notice?
Week 2	How many hours did you sleep last night? Bedtime: _____ Woke up: _____ Hours: _____ Minutes: _____	$6 \times 4 =$ $6 \times 5 =$ $6 \times 6 =$ $6 \times 7 =$ What clues help you? Skip count by 6s forward and backward to/from 100.	Which is larger $\frac{2}{3}$ or $\frac{3}{4}$? How do you know? Is this always true? Prove it to an adult.	Skip count by 3s, 4s, and 7s to 100.	Collect 24 rocks or shells. How many different ways can you organize them?	I am thinking of an even number. It is greater than 7×6 and less than 6×10 . It has a factor of 7. What number is it?
Week 3	Find the perimeter of the front of a cereal box in inches or centimeters. Can you draw a different shape with the same perimeter? (You may need a ruler.)	$7 \times 4 =$ $7 \times 5 =$ $7 \times 6 =$ $7 \times 7 =$ What clues help you? Skip count by 7s forward and backward to/from 100.	Find a shoebox and measure the perimeter of the top of the box (in inches). If a stamp is 1 in by 1 in., how many stamps would you need to make a border around the top?	Looking at a calendar, ask someone to choose 4 days that form a square. They should tell you only the sum of the 4 dates and you determine what the dates are.	How many seconds are in 5 minutes? How many minutes are in 4 hours? How many seconds in 2 $\frac{1}{2}$ minutes?	Draw two shapes. Color $\frac{1}{2}$ of each shape red. Color $\frac{1}{4}$ of each shape blue.
Week 4	Count the number of letters in each family member's name. Make a bar graph to represent the length of their names.	$8 \times 4 =$ $8 \times 5 =$ $8 \times 6 =$ $8 \times 7 =$ What clues help you? Skip count by 8s forward and backward to/from 100.	If you took $\frac{1}{2}$ cup of Cheerios, macaroni, or crackers and lined them up, how long do you estimate your line will be? Measure your line using centimeters (cm) and inches (in).	Play a board game with a friend or family member or put together a puzzle.	Describe 4 ways to group 108 ants. (You may want to read <i>One Hundred Hungry Ants</i> by Elinor Pinczes.)	Your family orders 2 pizzas for dinner and each pizza had 8 slices in it. How many pieces will each family member be able to eat? What about leftovers?