Entering Grade II

Summer Math Calendar: JULY

- There are 25 "math boxes."
- We encourage you to complete **20 boxes per month.**
- <u>**Color in each box**</u> as it is done. Many of the games and activities can (and should) be played over and over--so feel free to substitute.
- Children should continue to practice their "math facts" over the summer months. There are several websites and other suggestions below for ways to practice. Remember *fluency with facts* is the goal, not just memorization. Please put a <u>**check mark**</u> on each day that you practice.

Blow a marble, bottle cap, and a pencil across a table or the floor. Measure how far they go. Which goes the farthest? By how much?	Play adding 10. Roll a die. Add 10 to the number rolled. Record your number sentence. Repeat 10 times.	*Count backwards from 30 to 0. Count backwards from 83 to 40. *Count backwards by 10's from 100 to 0. *Count backwards by 5's from 40 to 0. Repeat using different starting numbers.	Make a quart of lemonade. How many cups of water do you need? How many tablespoons of mix do you need to make it sweet enough? Or How many lemons do you need? What happens if you double the recipe?	**Play Roll and Record!** *Directions are in folder.*
Balance on one foot. Time yourself. Now have the rest of your family try it. Record everyone's times. Who can stand on one foot the longest?	Get a pile of coins. How many ways can you make 25 cents using pennies, nickels and dimes?	Go for a walk in your neighborhood. What numbers do you see? Look for even and odd numbers.	Find a bookshelf. Estimate how many books are on the first shelf. Then count them by 2's. How close was your estimate?	Sort the laundry into categories (by owner, by size, by color, or by item type). Make a bar graph for color.
Play **Adding Within 100** 	How many seconds does a traffic light stay green? Red? How much longer is one light than the other?	Rosa has 14 stickers. She gave some to her friend. Now she has 7 stickers. How many did she give to her friend?	Read The Button Box by Margarette Reid. Find a collection and sort it. Ask a friend to figure out how you sorted.	Count by 2's to 50 starting at 12. Count by 10's to 64 starting at 4. What did you notice about the numbers you say? Repeat using different numbers.
Write down the ages of everyone in your family. How much younger are you than your parent(s)?	Count how many times you can hop on your right foot, then your left. On which foot could you hop on longer? How much longer?	Play Build It: Plus or Minus Ten	In one blow, how many bubbles can you make? What are the most bubbles you can blow at one time?	I have 10 apples and oranges. How many of each could I have? How do you know you have found all the possibilities?
Hold an ice cube in your hand. Count by 2's until it melts. Did you count to more or less than 100!	**Play Tens Go Fish** *Directions are in folder.*	Get a pile of coins. Show all the ways to make 15 cents. How do you know you have them all?	Write a story problem for each of these equations: 13 + 7 = _____ 18 - 9 = _____	The answer is 20. What is the question?

The Park School

Entering Grade II

Summer Math Calendar: August

Practice your addition and subtraction facts at least 3 times a week.
Make piles of "facts I know" and "facts I am working on."

Play **Build It: Plus or Minus Ten** (QR code)	Tell an adult an addition story problem to go with 6 + 5. Now tell a subtraction story for 11 - 5. Make up other addition and subtraction story problems.	A small pack of gum has 6 pieces. How many pieces of gum are in 3 packs? What about in 5 packs? What if each pack had 7 pieces? 8? and so on?	Make a 3-D shape using mini marshmallows and toothpicks. How many corners does your shape have? How many edges?	How many ways can you make 12? Write at least 10 ways to make 12. Use addition and subtraction.
Roll 2 dice together and add to find the sum. Do this 20 times. What sum did you get most often? Why? Make a graph to show your results. Do some more testing. Do your results stay the same? Why?	Estimate the number of cups it will take to fill a pitcher. Now try it!	**Play Adding Ten. Roll a die. Add 10 to the number rolled. Record your number sentence. Repeat 10 times.**	Make a tally chart of the number of fruits and vegetables you ate today at your meals and snacks. Did you eat 5 servings? Keep track for a week. What do you notice?	Play a hiding game. Get 7 pennies. Put some in one hand and some in the other hand. Show one hand, and have the adult figure out what's hiding. Switch roles. Play at least 10 times. Try it with different numbers of pennies!
Make a list of 2-D and 3-D shapes. Go on a scavenger hunt to look for those shapes. Bring your list and check off the shapes you find.	Gather a handful of coins worth less $2.00. Calculate how much you have.	The answer is 50. What is the problem?	Read _Alexander, Who Used to Be Rich Last Sunday_ by Judith Viorst Keep track of how you spend $1.00 or read another Math Book!	Create a repeating pattern with shapes. Ask a friend to predict what the 9th shape would be. The 10th? The 20th? Have your friend make up a new pattern and you answer the questions.
Line up 4 different figures or animals. Record the order. How many different ways can you line up 4 figures? Keep a list or chart.	Read the whole story before answering. _I had 5 shells. I found 2 more. I found 3 more. I gave 2 to my sister. How many do I have? Can you write an equation that matches the story? Make and solve other story problems._	**Today's Number is 18.** Make 18 by: -adding two numbers -subtracting two numbers -adding three numbers -adding four numbers	Play How Many Under My Shell: http://illuminations.nctm.org	If you save 2 cents every day in August, how much money will you have at the end of the month? What if you saved 2 cents every day of the summer. How much money would you have the first day back at school?
Play Five In a Row from your Math Kit Directions also in folder.	Jump rope and count by tens to at least 100....but see how high you can go. Now try counting backwards by tens.	Write down what time you go to bed. Write the time and draw a picture of what it would look like on a clock with hands. Write down what time you get up in the morning. How many hours did you sleep?	**Play Double Compare** **_Directions in folder_**	How many days until school starts? How many hours? Minutes?