Get ready for Sixth Grade!

In Grade 5, instructional time in math focused on three critical areas:

Critical Area One
Developing fluency with addition and subtraction of fractions, and developing understanding of the multiplication of fractions and of division of fractions in limited cases (unit fractions divided by whole numbers and whole numbers divided by unit fractions)

Critical Area Two
Extending division to 2-digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operations

Critical Area Three
Developing understanding of volume– developing understanding of multiplication and division and strategies for multiplication and division within 100

The following summer math activities will enable your child to review math concepts and reinforce skills learned this year. Just a few minutes each day spent "thinking and talking math" will help reinforce the math that has been learned and begin to bridge the foundation for extending to the concepts that will be developed next year. The goal is for your child to have fun thinking and working collaboratively to communicate mathematical ideas. While your child is working, discuss the math concept being reinforced.

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat.
	1 With partner, put 5 cards face up. Turn a 6th card, to be a Target Card. Each player uses the cards to make the Target Card #. All 5 cards must be used only once. Use +, - , x, and/or ÷.	2 Use four 4's to create problems that will equal 1-12. Remember to use the correct order of operations to solve your problems: Parentheses, Exponents, Multiply or Divide, Add or Subtract.	3 286,489 is an odd number. How many times greater is the 8 in the ten thousands place than the 8 in the tens place? Explain your thinking	4 .75 is the answer. What could the question possibly be? Challenge yourself to think of more questions.	5 Six friends have 4 sandwiches to share. What fraction of a sandwich would each person get?	6
7	8 Express the number 50 in at least 25 different ways. Use all 4 operations and include fractions and decimals.	9. Write an expression for: Add 2 and 4 and multiply the sum by 3. Next, add 5 to that product and double the result.	10 Try a new activity at http://www.coolmath4kids.com/ Challenge yourself. What did you chose to do?	11 On Saturday 3/4 of a 5th grade class went to see a new movie. If 1/2 of the class went to the afternoon session, what fraction of the class went to the evening session?	12 Count cricket chirps for 15 sec. Add 39. This will give you the F. temp outside. Try it on 3 different days. Does it work?	13
14	15 Choose a favorite professional athlete and research his/her annual salary. How much does s/he earn in a month? A day?	16 A rectangle is twice as long as it is wide. Its width is 51/2 cm. Find the area of the rectangle.	17 The sum of two mixed numbers with unlike denominators is 5 3/5. What might the two mixed numbers be? Show as many different solutions as you can.	18. A California Condor has a 114 inch wingspan. How many feet is that?	19 You have 2 5/8 pizzas to share equally with 3 people. How much pizza will each person get?	20
21	22 Monday through Friday a baker uses 11/4 sacks of flour when baking cakes. Will the baker use more than or less than 5 sacks of flour from Monday through Friday?	23 Place parentheses in the following equation to make it true. $6+6\div6\times6-6=0$	24 Deal 3 cards to make a 3-digit number. Even numbers are whole numbers. Odd numbers are decimals. Repeat this. Add the 2 #s. Turn over 3 new cards per turn. Continue to add the # to last score. Game to 300.	25. Tom built a backyard pen for his new puppy. The length of the pen was 6 1/4 meters and the width was 4 meters. What is the area of the pen?	26 Multiply two fractions together to get the number 1. What do you notice?	27
28	29. Write a story for this problem 2 ÷ 1/3.	30 There are 3 pizzas. Each child will get 1/4 of a pizza. How many children will get pizza?				

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			1 Can you use 1/8 x 2/5 to solve the problem? There is 2/5 of a pizza left. If Jamie eats another 1/8 of the original whole pizza, what fraction of the original pizza will be left over? Explain	2 Read Guinness Book of Records by Time Inc. What record surprised you the most? Why?	3 Choose a geometry ac tivity at Math Illuminations http://illuminations.nctm.org/activitysearch.aspx	4
5	6 Play Suduko from the newspaper How did logic help you to solve the puzzle?	7 Is a 3 liter pitcher large enough to hold 25 cups of juice? Explain	8 How many blades of grass are in a square yard of your backyard? Use logic, measurement, and problem solving strategies to find the answer.	9 Write a word problem for the equations 1/2 x 2/3 = X Solve it!	10 Find the sum and difference between two decimals. Compare the two decimals using >, =, and < symbols.	11
12	13 Visit the website Figure this and look for a real life math challenge. http://www.figurethis.org/index.html	14 Find a fraction or decimal in the newspaper. What did it relate to?	15. If you spend $100.00 a day, how many days will it take to spend a million dollars? How many years is that? What would you buy?	16 I am a number less than 50. When divided by 5, my remainder is 4. Who am I? Is there more than 1 correct answer?	17 Evaluate the following numerical expression. 2×(5+3×2+4) Can the parentheses in this expression be removed without changing the value of the expression?	18
19	20 Jen is 12. Amy is 13. In 25 years, what will be the product of their ages?	21 Find the sum of the digits of your phone number. What numbers is it divisible by?	22 If you buy 3 books at $3.95 each, how much change would you get from $20.00?	23 I am an even, 3 digit palindrome. (ex: 464) The product of the digits is 8. What number am I?	24 Round to the nearest hundredths place value: 60.747	25
26	27 Leo& Mia are comparing the product of 60×225 to the product of 30×225. Mia says she can compare these products without multiplying the numbers. Explain how she might do this.	28 A box 2 centimeters high, 3 centimeters wide, and 5 centimeters long can hold 40 grams of clay. A second box has twice the height, three times the width, and the same length as the first box. How many grams of clay can it hold?	29 Robert has 986 paperback books. He wants to put these books on storage shelves. Each shelf can hold 50 paperback books. How many shelves will Robert need to hold all of the books?	30 The average cow can produce more than 45,968 glasses of milk in a year. There are 52 weeks in a year. About how many glasses of milk can a cow produce each week?	31 Michael's Deli is open 5 days a week for 5 hours each day. One week the deli served 925 customers. If the same number of customers were served each hour, how many were served each hour?	

Great Books to Read

A Gebra Named Al by Windy Isdell
Math Curse by Jon Scieszka
Chasing Vermeer by BlueBalliett
Sir Cumference & the Dragon of Pi by Cindy Neuschwander
Sir Cumference & the First Roundtable by Cindy Neuschwander
Sir Cumference & the Great Knight of Angleland by Cindy Neuschwander
Sir Cumference & the Sword in the Cone by Cindy Neuschwander
Number Devil: A Mathematical Adventure by Hans Magnus Enzensberger
Counting on Frank by Rod Clement
Guinness Book of Records by Time Inc
Mathematicians are People Too by Luetta Reimer & Wilbert Reimer