Get ready for Fifth Grade!

In Grade 4, instructional time in math focused on three critical areas:

Critical Area One

- Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends

Critical Area Two

- Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers

Critical Area Three

- Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry.

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 Write three facts about the number 28. Is this number prime or composite? How do you know? Round this number to the nearest 10.	2 A lawn water sprinkler rotates 65 degrees and pauses. It then rotates 25 more degrees in the same direction. What is the total degree rotation of the sprinkler? To cover a full 360 degrees, how many more degrees will it move?	3 Read A Grain of Rice by Helena Pittman. Calculate how many grains of rice she will receive on day 18. How many will she have altogether?	4 Solve the riddle: I have 5 in the tenths place. I have 7 in the thousandths place. I have 4 in the ones place. I have 2 in the hundredths place. What decimal am I? Write your own riddle.	5 Skip count by 5's starting at 1. What patterns do you notice? Explain why you think these patterns are happening.	6
7	8 Identify, record and classify angles: acute (less than 90°) obtuse (greater than 90°), right (90°) in everyday things (buildings, bridges, furniture...)	9. Write down the names and prices of 5 cars you find in the newspaper. Order the prices from least to greatest. Round the prices to the nearest thousand.	10 15 friends want to order pizza for dinner. They predict that each person will eat 1/3 of a pizza. How many pizzas should they order? What if there were 9 friends and they each ate 1/3 of a pizza?	11 T he sum of two mixed numbers is 5. What might the two mixed numbers be? Show as many different solutions as you can. Explain your strategy.	12. Write down the numbers you see on 2 license plates. Create 4 math problems with these numbers using all 4 operations (+, -, x, ÷).	13
14	15 Write 2 fractions that are equivalent to 3/5.	16 Find all of the factors of 48	17 Jacob is making a stew. The stew calls for 3/8 cup of rice. If he triples the recipe, how much rice will he need? Write an addition problem to show your answer.	18. Solve the division problem below. 467 / 9 = _____	19 Put the fractions in order from least to greatest. 3/8, 9/10, 1/2, 1/3	20
21	22 List the first 5 multiples of 8.	23 In the number 37,832, what is the value of the 8?	24 What is the perimeter of a square with sides that measure 4 meters?	25 Order the numbers from least to greatest: 0.3, 0.13, 0.19, 0.31	26 Estimate the product and then solve the problem. 62 x 82 = _____	27
28	29. Write 7,129 in expanded form.	30 Write <, >, or = 2/10 _____3/5				

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			1 Tom and Ben ordered a pizza for lunch. They each ate 1/3 of the pizza. How much pizza was eaten? How much pizza was left?	2 Draw a design using symmetry. What makes your design symmetrical?	3 Visit the website www.mathplayground.com Play the logic games. How did you do?	4
5	6 The difference between two mixed numbers is 31/4. What might the two mixed numbers be? Show as many different solutions as you can. Explain your strategy.	7 Play Concentration at www.illuminations.nctm.org Choose: fractions, face down. Draw pictures that represent some fractions.	8 I earn $5 per hour babysitting and $4 per hour for weeding the garden. Last week I did 7 hours babysitting and 6 hours weeding. How much more money do I need to buy a game that costs $80.00?	9 Measure the perimeter of two different sized windows in your home. Find the difference of the perimeters.	10. A cake recipe calls for you to use 3/4 cup of milk, 1/4 cup of oil, and 2/4 cup of water. How much liquid was needed to make the cake? Is this more or less than a pint? How do you know?	11
12	13 List some capital letters (H, F...) that have one pair of parallel lines. Are there any that have two pair of parallel lines or three	14 What factors can you use in this equation, x 5 = , to make a product that is an odd number between 30 and 60? Show all possible solutions. Explain your strategy.	15. A regular pentagon measures 2 1/8 cm on one side. What is the perimeter of the pentagon?	16 Sarah is having a slumber party with her 11 friends and they are telling scary stories. They divide into 3 groups and each group tells a story. Each group member talks for 3 minutes. How many minutes does each group take to tell a story?	17 Tonya and Lauren are designing a soccer uniform. They want to use two colors on the shirt. Their choices are green, orange, yellow, purple, blue, and silver. How many ways can they choose the two colors?	18
19	20 Make the largest and smallest numbers you can find using the digits 4, 1, 7, 8, and 2. Find their difference and sum.	21 If a rectangle has an area of 27 sq. cm. and its width is 3 cm., what is the length?	22 At his job, Mr. Miller works 7 hours a day, Monday through Friday. How many hours does he work in 2 weeks?	23 Write the number below in standard form. 90,000 + 4,000 + 300 + 60 + 2 =	24 Use rounding to estimate the product of the problem below. 36 x 54 = _____	25
26	27 What are the factors that 36 and 24 have in common?	28 Round 16,326 to the nearest ten.	29 Is 23 a prime number or a composite number. How do you know?	30 Are 3/8 and 3/4 equivalent fractions? How do you know?	31 Draw a square, and then draw all lines of symmetry for that square.	

Fifth Grade Math Literature:

Burns, Marilyn	The I Hate Mathematics! Book
	Brown Paper School Book: Math for Smarty Pants
	This Book Is about Time
Juster, Norton	The Phantom Tollbooth
VanCleave, Janice Pratt	Janice VanCleave's Math for Every Kid: Easy Activities That Make Learning Math Fun
	Janice VanCleave's Geometry for Every Kid:
	Easy Activities That Make Learning Geometry Fun
Schwartz, David M.	G Is for Googol: A Math Alphabet Book
Scieszka, Jon	Math Curse
Pappas, Theoni	Math for Kids and Other People, Too!