Ten Summer Math Activities For Rising St. Patrick Catholic School 5th and 6th Graders

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Keep a math journal of each activity detailing what you did, learned, and where you had trouble. Students are expected to turn in the journal the first week of school. Stapled loose leaf paper or a digital journal is fine. This will be a project grade for the first quarter. Students must complete at least seven activities. A score of 100 would mean all activities were completed with a detailed journal.

1. Have your 5th/6th graders cut pizzas, cakes and/or pies into fractions. Were pieces equal? Did it cause a problem if pieces were unequal? Think! Would you rather have **1 whole, ⅓, ¼, or ²⁄₁₂** of the pizza? I did this at a summer camp, and the group that chose ²⁄₁₂ learned math the hard way. Your IXL.com log in will work for the summer. Master third grade fraction lessons in IXL.com to build understanding as needed.

2. Play with money, especially dimes, quarters, and pennies.
   -Play store with money. Use words like total. Have students subtract to make change. Come to school knowing the value of coins!!!
   -Have students look at receipts. Show them how you determine tips at restaurants. Write about money in your journal.

3. Have your child watch as you pump gas. This is a great visual for decimals watching the cost versus the gallons pumped. Record observations in the journal.

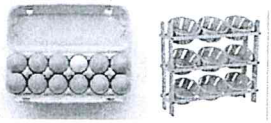
4. Use the stopwatch feature on a cell phone. See how long they can hold a handstand, run to the mailbox and back…. Times should be written in the journal. Talk about the difference between 2.56 and 2.57. Make a big deal by saying "2 whole seconds and 56 hundredths." Students struggle with decimals in 5th/6th grade.

5. Practice simple division by putting things in equal groups. Have them divide a bag of candy, people, and small items. This will help with word problems. Talk about remainders.

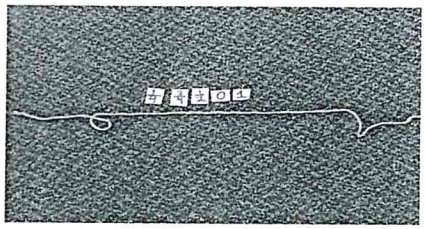
6. Play boardgames. Roll multiple dice. Add and multiply the numbers as fast as you can. Try adding large numbers without paper or a calculator. Write your strategies in the journal.

7. Look for shapes and symmetry in nature. Record your observations in your journal.

8. Look for and study arrays that model multiplication. Students are expected to be able to answer 100 basic division/multiplication in less than 5 minutes. They will hear me say, "Math is all about patterns" on a weekly basis. If you say this too, it will drive home this fact. Attached are some practice drill sheets. For more practice, go to www.math-drills.com



9. Take a piece of string about the length of your arm. Write 0, 1, ¼, ½, and ¾ on small pieces of paper. Have your child place the papers in numerical order on the string. Most will get the correct order, but the fractions will not be placed correctly. If your child folds the string in half and then again to get fourths, he/she has a very good understanding of what the denominator means in a fraction!



10. You choose a fun math activity. Write about it in your journal.

Division Facts (I)

Find each quotient.

$10 \div 10 =$	$21 \div 3 =$	$40 \div 5 =$	$70 \div 10 =$
$20 \div 10 =$	$4 \div 4 =$	$3 \div 1 =$	$20 \div 4 =$
$48 \div 8 =$	$8 \div 1 =$	$42 \div 6 =$	$30 \div 5 =$
$40 \div 8 =$	$72 \div 9 =$	$60 \div 6 =$	$5 \div 1 =$
$12 \div 4 =$	$25 \div 5 =$	$90 \div 10 =$	$6 \div 1 =$
$3 \div 3 =$	$16 \div 8 =$	$80 \div 10 =$	$42 \div 7 =$
$9 \div 1 =$	$6 \div 3 =$	$24 \div 8 =$	$72 \div 8 =$
$56 \div 8 =$	$21 \div 7 =$	$36 \div 9 =$	$10 \div 5 =$
$9 \div 9 =$	$81 \div 9 =$	$80 \div 8 =$	$56 \div 7 =$
$35 \div 7 =$	$45 \div 5 =$	$90 \div 9 =$	$70 \div 7 =$
$18 \div 3 =$	$24 \div 6 =$	$30 \div 6 =$	$27 \div 3 =$
$24 \div 3 =$	$27 \div 9 =$	$64 \div 8 =$	$8 \div 2 =$
$60 \div 10 =$	$1 \div 1 =$	$7 \div 7 =$	$12 \div 6 =$
$49 \div 7 =$	$4 \div 1 =$	$50 \div 10 =$	$32 \div 8 =$
$63 \div 9 =$	$9 \div 3 =$	$5 \div 5 =$	$18 \div 9 =$
$48 \div 6 =$	$30 \div 10 =$	$15 \div 5 =$	$18 \div 6 =$
$35 \div 5 =$	$10 \div 1 =$	$7 \div 1 =$	$6 \div 6 =$
$40 \div 10 =$	$2 \div 1 =$	$20 \div 2 =$	$20 \div 5 =$
$63 \div 7 =$	$8 \div 8 =$	$50 \div 5 =$	$16 \div 4 =$
$32 \div 4 =$	$28 \div 7 =$	$12 \div 3 =$	$54 \div 9 =$
$100 \div 10 =$	$14 \div 7 =$	$36 \div 6 =$	$45 \div 9 =$
$54 \div 6 =$	$2 \div 2 =$	$40 \div 4 =$	$18 \div 2 =$
$36 \div 4 =$	$30 \div 3 =$	$24 \div 4 =$	$15 \div 3 =$
$28 \div 4 =$	$8 \div 4 =$	$4 \div 2 =$	$6 \div 2 =$
$14 \div 2 =$	$10 \div 2 =$	$12 \div 2 =$	$16 \div 2 =$

Multiplication Facts to 144 (S)

Name: _____ Date: _____ Score: ____ /100

Calculate each product.

9 × 8	11 × 4	4 × 6	12 × 4	3 × 4	7 × 4	10 × 4	10 × 10	8 × 4	11 × 10
9 × 10	5 × 12	5 × 2	11 × 11	8 × 3	2 × 3	8 × 7	6 × 7	7 × 9	5 × 9
6 × 8	9 × 11	7 × 7	7 × 11	12 × 7	5 × 10	2 × 11	3 × 12	12 × 11	9 × 12
4 × 9	2 × 4	12 × 6	4 × 5	9 × 6	5 × 7	6 × 2	10 × 6	2 × 9	5 × 5
3 × 5	2 × 12	7 × 10	8 × 5	10 × 3	2 × 7	4 × 4	5 × 6	3 × 9	11 × 8
6 × 6	5 × 11	3 × 11	8 × 12	12 × 12	9 × 9	8 × 8	12 × 10	8 × 10	7 × 3
2 × 8	10 × 2	6 × 3	6 × 11	2 × 2	3 × 3	5 × 6	2 × 5	9 × 8	9 × 2
2 × 7	8 × 10	12 × 2	4 × 7	7 × 7	8 × 2	6 × 6	8 × 5	10 × 6	8 × 4
2 × 6	11 × 7	11 × 12	3 × 11	11 × 8	11 × 5	10 × 10	2 × 2	12 × 12	10 × 12
10 × 2	12 × 4	5 × 10	5 × 7	5 × 4	11 × 11	8 × 7	3 × 6	4 × 11	9 × 4