Name _____

I am entering 4th Grade in August.

Dear Parents and Students,

Get ready to discover mathematics all around you this summer!! Just like reading, regular practice over the summer with problem solving, computation, and math facts will maintain and strengthen the mathematic gains made throughout the school year.

DIRECTIONS:

★Complete at least 20 math boxes each month.

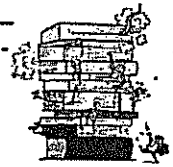
★Record your work on a separate piece of paper.

★Attach your work to the calendars.

★Return everything to your 4th grade teacher in August.

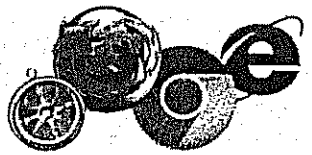
Tracey Elementary School
20 Camp St.
Norwalk, CT 06851

Cool Math Books to Read:



The $1.00 Word Riddle Book by Marilyn Burns
Fraction Fun by David Adler
The Best of Times by Greg Tang
Pigs Will be Pigs: Fun with Math and Money by Amy Axelrod

Fun Websites to Explore:



www.funbrain.com
www.mathplaygound.com
www.aplusmath.com
www.pbskids.org
http://www.gregtangmath.com/
illuminations.nctm.org

✣Click on ACTIVITIES. Click on 3-5 and press SEARCH

Games To Play with 2 or more players
(You will need a deck of cards)

1. Multiplication War

Remove the face cards from a deck of cards (or make up values for each face card). Remember an "Ace" equals "1".

Deal all the cards equally between 2 or 3 players. Each player turns over 2 cards and multiplies the numbers together. The person with the higher product wins the pile of cards. If you have the same product repeat the procedure. Winner takes all the cards.

2. Close to 1000

Aces = 1; Jacks, Queens, & Kings = WILD cards = stand for any digit 0-9

Deal 8 cards to each player.
Use any 6 of your cards to make TWO 3-digit numbers.
Try to make a combination that when added is close to or exactly 1000.

Example:
You are dealt: A 5 4 3 A 8 3 8
You can combine 148 + 853 = 1001.
Your score is 1 since the difference between 1001 and 1000 is 1.

Discard the 6 used cards and pick 6 new cards.

Make a recording sheet to record 5 rounds of play showing: (a) the numbers you make, (b) the sum of your numbers, and (c) the difference between your sum and 1000 (your score).

The lowest score after 5 rounds wins.

Other Games to Play:

Monopoly, jigsaw puzzles, Yahtzee, Othello
Crazy Eights, Blink, Connect Four, Lego®, K'Nex, Battleship, Mancala, Simon, Mastermind, Blokus, Set

Students Entering 4th Grade - July

DIRECTIONS: Complete <u>at least 20 boxes</u> and lightly color in the box after you complete it. Attach your work.

1. Find a graph in the newspaper or on the computer. Write 3 statements about the graph.	2. <u>Read The Best of Times</u> by Greg Tang. Make a set of flash cards and practice the multiplication facts.	3. I am a number between 20 & 30. When you divide me into 6 equal groups, there is an even number in each group and 2 are left over. What number am I? Write your own division riddle.	4. If Mia painted 400 fingernails, how many people did she see? If the vet examined 26 dogs, how many paws did she see?	5. If the movie actually began at 7:05 and finished at 8:45, how much time elapsed? If you left home at 6:35 and returned at 9:05, how long were you out?	6. Read <u>Fraction Fun</u> by David Adler. Which is larger, 2/3 or ¾? How do you know? Prove it.	7. With your parent make a list of items to get at the grocery store. Estimate the cost. Add up the cost after you buy them. Calculate the difference.
8. Find the perimeter and area of your front or back door. Record and explain.	9. Draw a design that has symmetry. And then... Play **Close to 1000** (see directions)	10. Three consecutive numbers have a sum of 30,000. What are the numbers? After you solve this problem, make up a similar one for a family member or friend to solve.	11. Draw a 6-inch number line that begins with 0 and ends with 1. Roll a die. Divide your number line into this number of equal segments. Label the segments. Explain thinking.	12. I am a number between 20 & 30. When you divide me into 6 equal groups, there is an even number in each group and 2 are left over. What number am I? Write your own division riddle.	13. Roll a die 25 times. Record the numbers that you roll each time. Which number came up the most? The least? What are the chances of rolling a 5?	14. Draw 8 of the same triangle. Color ¼ of the triangles. How many should you have colored?
15. Play **Multiplication War** (see directions)	16. In the number 75,643 what number is in the ones place? Hundreds place? Ten thousands place?	17. Play the <u>Product Game</u> at www.illuminations.nctm.org ♦ Click on ACTIVITIES ♦ 3-5 Click Search ♦ Select: **Product Game** Record the strategy that you used.	18. When rounding to the nearest ten, what is the smallest whole number that will round to 50? The largest? How many different whole numbers round to 50?	19. Compare the fractions below. Use the symbols >, =, or < to record your comparisons. Draw a picture to illustrate your answer. 2/6 and 5/6 1/2 and 1/3	20. Rosa made 56 cupcakes. She put 8 cupcakes into each box and sold the boxes for $3.00 each. How much money did Rosa receive?	21. There are four cups in one quart and 4 quarts in a gallon. How many cups are there in 4 gallons of fruit punch? How many pints is this?
22. Figure your age in months. How many months old are you? How many days old are you?	23. Ben has 6 square tiles. Each tile has a width of 8 inches. He lays the tiles down in a long row. What is the perimeter of the row of tiles? What is the area?	24. Play **Chairs** at <u>www.illuminations.nctm.org</u> ♦ Click on ACTIVITIES ♦ 3-5 Click Search ♦ Select: **Chairs**	25. Make the largest and the smallest numbers you can using: 4, 1, 7, 8, 5, and 2. Find their difference and their sum.	26. Read <u>Pigs Will be Pigs: Fun with Math and Money</u> by Amy Axelrod. Get a menu from a restaurant and add up what it would cost for your entire family to eat there.	27. Masha had 120 stamps. First, she gave her sister half of the stamps and then she used three to mail letters. How many stamps does Masha have left?	28. Evan can paint 18 pots in one hour. His brother can paint 4 fewer pots per hour than he paints. How many pots can they paint in 3 hours, 30 minutes?

PARENT SIGNATURE:_____ CHILD's NAME:_____

Return this calendar to your 4th grade teacher in August.

Students Entering 4th Grade - August

DIRECTIONS: Complete at least 20 boxes and lightly color in the box after you complete it. Attach your work.

1. A farmer has chickens and cows. What combination of animals could total 24 legs? Is there more than one combination?	2. Play Deep Sea Dual at www.illuminations.nctm.org ♦ Click on ACTIVITIES ♦ 3-5 Click Search ♦ Select: Deep Sea Dual	3 Plan a meal for your family. With an adult, make a list of the ingredients, go shopping, and then follow the recipes. Are there fractions in your recipes?	4. If you get up at 6:00 a.m. and need to be at a friend's house by 10:45 a.m. how much time do you have to get ready and get there?	5. The product of two numbers is 30. The sum of the two numbers is less than 20. What might the two numbers be? Show all possible solutions and explain your thinking.	6. Roll 2 dice and multiply to find the product. Do this 25 times. Record each product. Create a bar graph with the results. What do you notice? Describe your data.	7. A farmer has chickens and cows. What combination of animals could total 24 legs? Is there more than one combination?
8. If you called London, England at 8:00 p.m. Connecticut time. What time would it be in London? (Hint: London is 5 hours ahead)	9. Use a ruler to draw a rectangle measuring 12 cm long and 4 cm wide. Find the area and perimeter.	10. Is there a street parallel to your street? Look on a map and find 2 streets that are parallel and 2 streets that are perpendicular to each other.	11. Finish the table. What's the rule? Input / Output 2 / 50 4 / 100 ? / 200 6 / ?	12. Looking at a calendar, ask a friend to choose 4 days that form a square. Your friend should tell you only the sum of 4 dates and you determine the dates.	13. What number do you add to 74 to get 100? What are 2 numbers you can add to 245 to get 300? 245+___+___= 300	14. When you buy school supplies (backpack, clothes, etc...) keep track of the amount you spend. Total the cost.
15. There are 6 tables in Mrs. Potter's art classroom. There are 4 students sitting at each table. Each student has a box of 10 colored pencils. How many colored pencils are at each table? How many colored pencils in total?	16. Family fun! Go on a road trip. Write down the miles on the odometer when you leave. Write down the miles when you get home. How many miles did you travel?	17. Select ten items from a grocery flyer and find the total cost of the items. Calculate how much change you would receive from a one hundred dollar bill.	18. When rounding to the nearest hundred, what is the smallest whole number that will round to 500? The largest? How many different whole numbers will round to 500?	19. Play Concentration at www.illuminations.nctm.org ♦ Click on ACTIVITIES ♦ 3-5 Click Search ♦ Select: Concentration	20. 8 x 4 8 x 5 8 x 6 8 x 7 What clues help you? Skip count by 8s forward & backward.	21. How many seconds are in 5 minutes? How many minutes are in 4 hours? How many seconds are in 2 ½ minutes?
22. Find 4 numbers larger than 1,000 in a newspaper. Put them in order from least to greatest. What is the difference between the smallest and the largest?	23. 4 x 4 4 x 5 4 x 6 4 x 7 What clues help you? Skip count by 4s forward & backward.	24. I am thinking of an even number. It is *greater* than 7 x 6 and less than 6 x 10. It has 7 as a factor. What numbers can I be?	25. Find the perimeter of the front of a cereal box in cm. Can you draw a different shape with the same perimeter? Use a cm ruler.	26. Choose a single-digit number. Double it. Keep on doubling the sum until you get a sum that is greater than 1,000. How close to 1,000 is the number you reached?	27. Have a scavenger hunt for real-world examples of right angles (ex. the corner of a book)	28. Complete the problems using >, <, = 471 ___ 147 194 + 7 ___ 9 + 203 4 x 9 ___ 6 x 6

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