SUMMER MATH ACTIVITIES

Rising 1st Grade

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Dear Parents/Guardians:

The Ewing Board of Education has endorsed the use of a Summer Mathematics Packet in order to keep your child's math skills honed and current through the summer break.

The attached packet includes two "bingo boards" of activities—one for July and the other for August. This formatting will allow for families to choose activities of interest to them. The goal is to complete four activities in a row, or the four corner boxes, on each board.

Each possible combination of four boxes on a board includes one of the following:

- **Family Activity:** These family activities are designed to take advantage of typical everyday activities and focus on the math involved. Suggested discussion questions are included in the description of each family activity for your convenience. Many of these activities are the same or nearly the same across the grade levels so that families with children of different ages may work together. For example, during a trip to the grocery store a younger child may work on keeping count of items in the cart while an older child tracks an estimate of the final cost of the items.
- **Story Problem:** These story problems focus on the major content that the students have worked on during the school year. Children may use numbers or drawings to keep track of their thinking as they work and should be encouraged to use strategies familiar to them. Only the final answer needs to be recorded in the bingo board box. If your child wishes to include his/her work, attach it to the board when it is returned to school.
- **Game to Practice Facts and Computational Skills:** The simple game directions are written in the bingo board boxes. Game play requires a deck of cards and dice. If you are unable to obtain these materials, please contact me via email or phone.
- **Free Choice Game:** Students may select from a variety of options to complete this task. Options include playing identified math games online or using the attached game boards. These options are listed on the back of this letter. Students may also play any Math games sent home throughout the year or received from a Family Math Night.

Please work with your child to complete four tasks on the July board and four tasks on the August board. Completed tasks should be circled. I suggest that your child do one math task a week, however, feel free to have your child work on additional tasks, marking the extra activities with a star. Sign both boards, and have your child return the bingo board page to his/her teacher on the first day of school.

Thank you for continuing to positively communicate that our students can be strong math thinkers by asking them questions, having them explain their thinking and reasoning, and working together to notice new things about mathematics. Your encouragement and support of your children's efforts in mathematics are vital in helping your children develop a love of math. If you have any questions regarding problem solving strategies your child is using, please feel free to contact me.

Donald Wahlers
Don Wahlers
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Rising First Graders' Summer Math Bingo

FREE CHOICE GAMES

Choose from these options to complete the free choice games spots on the bingo boards. Once you've played the game, record the name of the game on the bingo board. Good luck!

Free Choice Online Games—Go to www.abcya.com , click on Grade 1, and scroll to Numbers games. Select from these games:

□ Numerical Order □ Drop Sum (keep game settings to Make 10 and negative numbers off)

□ Connect the Dots (any) □ Math Lines (choose target number 5 or 10)

Free Choice Paper Games—game boards on the next page

Math Tic-Tac-Toe

Materials: Math Tic-Tac-Toe board (attached), a deck of cards (only use A-5, A=1), two different types of bingo chips (pennies and dimes, Cheerios and Goldfish crackers, red and blue M&Ms, etc.)

Directions: Decide which type of chip each player will be. Place the deck of cards face down on the table. Player A flips 2 cards, adds the values, and places his/her counter on the sum. Player B takes a turn. Players continue alternating turns. If a player makes a sum that is in a spot where his/her opponent already has a chip, he/she steals the spot by removing the other player's chip and replacing it with his/her own. If a player makes a sum that is in a spot with his/her own chip, the turn is over. The first player to get three-in a-row wins!

Plus Ten

Materials: Plus Ten game board, deck of cards (A through 9, A=1), two different types of bingo chips (pennies and dimes, Cheerios and Goldfish crackers, red and blue M&Ms, etc.)

Directions: The goal of this game is to capture any three boxes in a row, side-by-side, top-to-bottom, or diagonal. Place the deck of cards face down on the table. Player A flips a card from the top of the deck, adds ten to that number, and captures a space on the board with that value. For example, if Player A flips a 6, he/she would add 10 to make 16, and then find and cover a 16. Players should look carefully at the board, as there are several spots for each possible value. Player B takes a turn. Players continue alternating turns until someone has captured three neighboring spaces on the board.

Make-a-Ten Puzzle

Materials: puzzle board (attached), a pencil

Directions are included on the top of the puzzle board.

Math Tic-Tac-Toe

2	3	4
5	6	7
8	9	10

Plus Ten

11	14	17	13	18	12
18	15	14	19	16	18
16	17	11	18	12	14
12	13	19	16	17	15
15	11	16	12	19	13
14	19	13	15	11	17

Make-a-Ten Puzzle

Find and circle the pairs of addends that make ten. The pairs of numbers must be touching side-by-side, top-to-bottom, or diagonal. Two examples have been done for you. (Examples: 5 + 5 = 10, so the two 5s are circled. 1 + 9 = 10, so the 1 and 9 are circled.) Every number in the grid has a match! ☺

1	2	8	5	6	7	3	1	4	2
5	9	7	4	5	0	10	9	8	6
5	3	10	0	4	3	8	5	0	1
8	1	3	5	6	2	7	10	5	9
2	9	5	7	6	9	6	2	8	0
5	0	10	4	5	5	1	4	5	10
9	5	2	7	1	3	7	5	3	7
3	1	8	9	3	4	6	10	4	9
7	5	7	3	8	10	5	0	1	6
4	6	5	2	0	5	6	4	8	2

Rising First Graders' Summer Math Bingo

☺ *Select and complete four activities in a row (or the four corners) on your bingo board for the month of July. Circle each box as you complete it. Draw a star on any extra activities you complete just for fun.* ☺

JULY

Student Name: Parent/Guardian Signature:

Family Activity: Count Around the Family Pick a number between 0 and 50. Take turns counting around the family, counting forward by 1 each time. (For example, Grandma picks the number 27. Brother says 28, sister says 29, Grandma says 30, etc.) Keep going until someone reaches 100. The person to say 100 wins!	**Find Tens Card Game:*** Place 8 cards face up in a row. Work together to find pairs that are "ten buddies"♦. Put those pairs to the side. When no more pairs can be found, lay down another 8 cards, covering any unused cards from the previous set. As you use the new cards, you uncover cards from the old set that may now have a match. Keep working until you have made all the matches you can. Count the number of pairs!	**Free Choice Game:** Select and play a game from the list. Which game did you play? _____	**Shells Problem:** Shawn had 5 shells. He wants to collect 10 shells. How many more shells does he need to complete his collection? _____
Free Choice Game: Select and play a game from the list. Which game did you play? _____	**Crayons Problem:** Rina had 5 crayons. She wanted to give some to her sister and some to her brother. Show two ways she could do this. _____ _____	**Family Activity: Grab Bag** Put a collection of small objects in a bag (Cheerios, pennies, Legos, etc.). Take turns grabbing a handful of the items. Have your child count how many items each family member grabbed. Discuss: Did my grab have more or less items than your grab? Extension: If the objects are different (like different color Legos), have your child sort the collection; discuss.	**First to 10 Game:*** Place the deck of cards face down. Player A draws a card and places it face up on the table. Player B draws a card, places it next to Player A's card, and adds the value to Player A's card. Players continue taking turns, adding on to the previous sum until a player makes 10 or more and collects the cards. Continue playing, alternating which player starts each round, until all the cards have been used. Most cards wins!
Pretty Stones Problem: Amy arranged some stones she found on her hike into a pattern. How many stones did she collect? ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ _____	**Free Choice Game:** Select and play a game from the list. Which game did you play? _____	**Double Compare Game:*** Split a deck of cards between two players. Each player flips over 2 cards and adds the values. The players compare their sums. The player with the higher sum collects all the cards in that round in a winnings pile. Continue playing until all cards have been used. The player with more cards in his/her winnings pile wins the game!	**Family Activity: Identifying coins** Put out a handful of coins. Talk about the names and values of each.
Hamburgers Game:* Deal out 2 cards to each player. Players arrange their cards face up in front of them with the smaller number on the left and larger on the right. Deal 1 more card to each player. Anyone that has been dealt a card that falls between their numbers wins a point for that round. First to 5 points wins!	**Family Activity: How do you use math?** Talk with the adults in your family. Discuss: How do you use math in your everyday life? (at home, at work, shopping, budgeting, etc.) What math tools do you use?	**Eating Cookies Problem:** At the summer camp picnic Elsa ate 8 chocolate chip cookies. Anna ate 3. How many more did Elsa eat than Anna? _____	**Free Choice Game:** Select and play a game from the list. Which game did you play? _____

*For these card games, only use A – 9 (A=1). ♦"Ten buddies" are number pairs that sum to 10 (1 and 9, 2 and 8, etc.).

Rising First Graders' Summer Math Bingo

☺ *Select and complete four activities in a row (or the four corners) on your bingo board for the month of August. Circle each box as you complete it. Draw a star on any extra activities you complete just for fun.* ☺

AUGUST

Student Name: Parent/Guardian Signature:

Family Activity: Grocery Store Math Take a trip to the grocery store together. As you add items to the cart, have your child discuss attributes of the item (length, weight, etc.). Compare the items. (Ex: The celery is longer than the carrots. Which is heavier, the can of soup or the bread?)	**Over/Under 7 Game:*** Decide which player will be "over 7" and which will be "under 7". Both players roll a die at the same time. If the sum is larger than 7, the "over 7" player scores a point. If the sum is less than 7, "under 7" wins the point. If the sum is exactly 7, both players win a point. The first player to 10 points wins!	**Free Choice Game:** Select and play a game from the list. Which game did you play? _____	**Bunnies Problem:** Three bunnies sat on the grass. Two bunnies came to join them. How many bunnies sat on the grass? _____
Free Choice Game: Select and play a game from the list. Which game did you play? _____	**Bye Bye Birdies Problem:** Ten birds were in a tree. Four flew away. How many birds were still in the tree? _____	**Family Activity: Cooking Together** Work together to prepare a favorite recipe. Read the recipe with your child and measure out the ingredients together. Discuss the steps and sequencing as you make the food. (Ex: What step do we need to do first? What should we do next? Etc.)	**Lucky 6 Game:*** Each player writes the numbers 1 through 6 in a column on a slip of paper. Player A rolls one die and places an X next to that number on her list. Player B takes a turn. If a number is rolled more than once, place another X next to the number each time. The game stops when either player has written an X next to each number on his/her list. The player with the most Xs next to 6 wins the game.
Ice Cream Problem: There were five scoops of ice cream in Matt's Belly Buster sundae. He could only eat 3 scoops. How many scoops were left? _____	**Free Choice Game:** Select and play a game from the list. Which game did you play? _____	**Ten Buddy Wipe Out Game:*** Each player writes the numbers 4 through 9 in a column on a slip of paper. Player A rolls a die and finds that digit's "ten buddy"♦ and marks an X next to that number on the list. (Ex: Player A rolls a 3, knows that 3+7=10, and marks an X next to the 7 on her list.) Player B takes a turn. The first player to "wipe out" a number on his/her list with three Xs wins!	**Family Activity: Board Game** Play a board game together, such as Monopoly, Yahtzee, Parcheesi, Trouble, Pay Day, Sorry!, Checkers, etc.
Roll & Subtract Game:* Players take turns rolling 2 dice and finding the difference in their digits. The player with the largest difference wins a point for the round. (Ex: Dad rolls a 3 and 5, and subtracts: 5 – 3 = 2. Child rolls a 4 and a 1 and subtracts: 4 – 1 = 3. Child has a larger difference and wins the point for that round.) The first player to 5 points wins the game!	**Family Activity:Number Hunt** Take a walk around the house, the neighborhood, or a place you are visiting. Have your child write the numbers 1 through 20 on a slip of paper and circle each number that he/she finds during the number hunt.	**Merry-Go-Round Problem:** At the fair, Tamir went on the merry-go-round 9 times. Jake went on 2 times. How many more times did Tamir go than Jake? _____	**Free Choice Game:** Select and play a game from the list. Which game did you play? _____

*Use regular dice or cards Ace (1) through 6. ♦"Ten buddies" are number pairs that sum to 10 (1 and 9, 2 and 8, etc.).