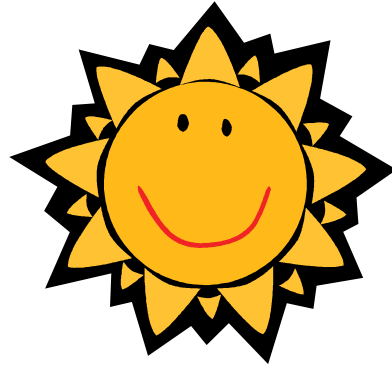


Milford Public Schools



Summer Math Activities

For Students Entering Grade 1

Name: _____

You have learned so much in MATH this year! There are many math activities that will help you practice your math skills and get you ready for first grade. You will find a calendar of activities for July and August. You may do these in any order on any day you choose. Once an activity has been completed a parent or guardian should write his/her initials in the box. If you wish, you may attach any papers you would like to show your new teacher. You will also find directions for the math games on the calendars. Please note that there are two required activities based on ice cream—Favorite Ice Cream Survey and Graph.

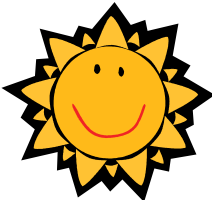
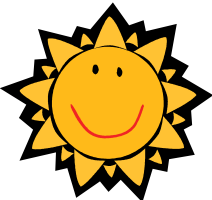
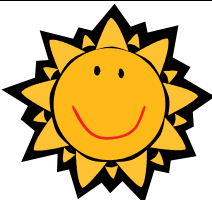
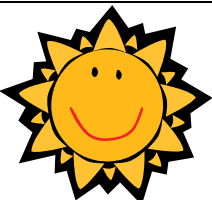
A list of books you can find at The Milford Public Library has been included.

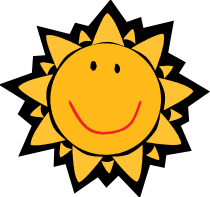

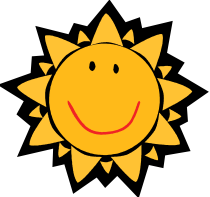


Remember to bring the calendar and the ice cream graph on the first day of first grade. Your new teacher will be so proud of your summer math work!!

Have a Safe and Happy Summer!

July 2010

Parents/Guardians, please confirm completion of each task by writing your initials in the appropriate box.

<p>#1 Write the names of the people in your house. Count the letters in each and circle the name that has the most letters.</p>	<p>#2 Look at the calendar and count how many Fridays are in July and August.</p>	<p>#3 Ask a grown-up to say 3 numbers in a row. You say the next three numbers -- or more! Do this several times! (ex. Adult- "7, 8, 9" child -"10, 11, 12")</p>		<p>#4 Skip count by 10's to 100. Skip count by 2's to 10 or more.</p>
<p>#5 Count how many times you can jump in a minute.</p>	<p>#6 Play "I-Spy" (Shapes, colors, number of windows, etc.) Use tally marks while you count.</p>		<p>#7 Go on a Shape Hunt. Look for items shaped like a circle, square, and rectangle in your house.</p>	<p>#8 Numbers in Sports – Cut out pictures from magazines or newspapers used in sports and paste them on a piece of paper.</p>
<p>#9 Use a ruler to measure the length of your bed and other furniture in your house. (Remember to start at 0). Which one is longer? Shorter? Are any the same?</p>	<p>#10 Find a group of objects to sort (toys, laundry, cans of food, etc.) Find at least two ways to sort and classify (describe each group).</p>	<p>#11 Play "Top-It" (also called War) with a deck of cards. Directions are attached.</p>		<p>#12 Create a pattern using the shoes in your house. Name the pattern: ABC, ABAB, ABCD</p>
<p>#13 Make a clock face with a paper plate. Write 12 at the top, 6 at the bottom, and then the rest of the numbers. Add hands if you want!</p>		<p>#14 Help set the table for a meal. How many people are there? How many forks, spoons, and knives do you need?</p>	<p>#15 Collect 5 shells or rocks. Put them in order from smallest to largest.</p>	<p>#16 Grab a handful of cereal or candy and estimate how many pieces you have. Now count the pieces. Did you make a good estimate?</p>

<p>#1 Favorite Ice Cream Survey – Take a survey of people’s favorite ice cream flavor. Use the table in the packet to record your results. Put a tally mark next to each flavor chosen. REQUIRED ACTIVITY</p>	<p>#2 Ice cream graph- Use the data (tally marks) from your favorite ice cream survey to fill in the bar graph on the survey sheet. REQUIRED ACTIVITY</p>		<p>#3 Grab a handful of coins. Sort the coins by value and name each coin (penny, nickel, dime, quarter)</p>	<p>#4 Write the numbers 1 – 5. Draw objects to match each number.</p>
<p>#5 Write the numbers 6 – 10. Draw objects to match each number.</p>		<p>#6 Use the hundred chart to count to 100. (by 1’s, 5’s, 10’s, etc.)</p>	<p>#7 Write the numbers 11-15. Draw circles to match each number.</p>	<p># 8 Pattern Day! Can you find patterns? (wallpaper) Can you make a pattern? (clap, clap, stomp)</p>
<p># 9 Write the numbers 16 – 20. Draw squares to match each number.</p>	<p># 10 Estimate and count how many bites it takes you to eat a sandwich. Estimate and count how many bites it takes a grown-up to eat a sandwich. Is the number of bites the same? Why or Why not?</p>	<p>#11 Divide things in half: sandwich, cracker, cookie, etc.</p>		<p>#12 Measure the width of a room in your house using your feet as the measuring tool. How many “feet” wide is the room? Next, have a grown up measure the room using his/her feet. How many “grown-up” feet wide is the room? Is there a difference? Why?</p>
<p>#13 At bath time, estimate how many minutes it takes to fill the bathtub. Then have a grown-up time it with a watch or clock. How close was your estimate to the actual time?</p>		<p>#14 Count the number of days until school starts. Make sure your Math Calendar is ready for First Grade!</p>		

AUGUST 2010

Parents/Guardians, please confirm completion of each task by writing your initials in the appropriate box.

Summer Math Books for First Graders!

SUBJECT	TITLE	AUTHOR
Patterns	The Lost Button The Button Box Frog and Toad are Friends Some Birthday Tops and Bottoms	Margaret S. Reid Arnold Lobel Patricia Polacco Janet Stevens
Number Sense	Math in the Bath Mouse Count Ten Black Dots Counting on Calico 1 Hunter Fish Eyes- A Book You Can Count On Two Ways to Count to Ten Frog Counts to Ten Icky Bug Counting Book One Hungry Monster The Very Hungry Caterpillar From One to Hundred Fireflies Ten Flashing Fireflies One Hundred Hungry Ants The 329 Friend What Comes in 2's, 3's, 4's?	Sara Atherlay Ellen Stoll Walsh Donald Crew Phylliss Limbacher Tides Pat Hutchins Lois Elhert Ruby Dee John Liebler Jerry Pallotta Susan Heyboer O'Keefe Eric Carle Terri Sloat Julie Brinckloe Phileman Sturges Elinor J. Pinczes Margorie Weinman Sharmat Suzanne Aker
Estimation and Approximation	Keepin' Count Overdues How Many, How Much (A Light in the Attic) A Chair For My Mother Counting on Frank Popcorn Popcorn Book	Shel Silverstein Vera B. Williams Rod Clement Frank Asch Tomi dePaolo
Ratios, Proportions and Percents	Gator Pie Eating Fractions Fraction Action The Half-Birthday party Ed Emberley's Picture Pie	Louise Matthews Bruce McMillan Loreen Leedy Charlotte Pomerantz Ed Emberly

<p>Probability and Statistics</p>	<p>Harriet's Halloween Candy Hats! Hats! Hats! Bread! Bread! Bread! Alligator Shoes Chrysanthemum</p>	<p>Nancy Carlson Ann Morris Arthur Dorros Kevin Henkes</p>
<p>Operations</p>	<p>The Napping House Ten Sly Piranhas The Doorbell Rang Six Dinner Sid Each Orange Had 8 Slices Sea Squares Two of Everything 17 Kings and 42 Elephants 12 Ways to Get to 11 Bunches and Bunches of Bunnies M & M Counting Book Domino Addition Rooster's Off to See the World</p>	<p>Audrey Wood William Wise Pat Hutchins Inga Moore Paul Giganti Joy N. Hulme Hong Margaret Mahy Eve Merriman Louise Matthews Barbara McGrath Lynette Long, Ph.D. Eric Carle</p>
<p>Spatial Relationships and Geometry</p>	<p>The Greedy Triangle A Cloak For the Dreamer The Bedspread Grandfather Tang's Story So Many Circles, So Many Squares Look! - Look! - Look! Shapes, Shapes, Shapes Secret Birthday Message Changes, Changes</p>	<p>Marilyn Burns Aileen Greeman Sylvia Fair Ann Tompert Tana Hoban Eric Carle Pat Hutchins</p>
<p>Measurement</p>	<p>Strega Nonna Five Minutes Peace Isn't it True? Inch by Inch The Grouchy Ladybug Clocks & More Clocks Benny's Pennies</p>	<p>Tomie dePaola Jill Murphy Leo Lionni Eric Carle Pat Hutchins Pat Brisson</p>

Top-It

Directions:

This is a game for two players (You may remember it as WAR). You will need a deck of cards. Remove the Aces and face cards. Children shuffle the deck and deal out the cards. Children place their stacks face down in front of them. They then turn over their top cards and read the numbers aloud. Whoever has the larger number keeps both cards. If the cards have the same number, put them aside and turn over the next two cards until someone wins the round and takes all the cards. When children have used all the cards from both stacks, play ends.

Variation: Take index cards and make your own deck with higher numbers. Children should write numbers in the upper left and lower right corners of each card as on standard playing cards.

Ice Cream Survey

1. Use the table below to take a survey of people's favorite ice cream flavor.
2. Put a tally mark next to each flavor chosen.

Ice Cream Flavor	Number of People
Chocolate	
Vanilla	
Strawberry	

3. Make a graph showing your results.

Favorite Ice Cream Flavors

Chocolate	Vanilla	Strawberry

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	68	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Fact Fluency For Students Going Into Grade 1

Educators agree that basic facts need to be developed to the point where they are done automatically if students are to be successful in mathematics. Students must effortlessly recall basic facts before they can fully engage in lessons which build higher order thinking.

To meet this end, we suggest the following website for use throughout the summer. This website allows students to practice facts online and provides data which can be used to improve the speed of fact retrieval.

Link: [Addition Facts Practice](#)

Suggested Plan for Use:

- 1) Begin with the addition pre-test.
 - Keep a folder to show your child's score at the beginning of the summer.
- 2) Use pre-test results to determine weak facts.
- 3) Practice weak facts with the appropriate worksheets.
 - Print-out flashcards as needed.
- 4) Build fluency by working for completion times under 2 minutes
 - Make a game of posting results over time.
 - Set goals with your child.
- 5) End the summer with the addition posttest.
 - Celebrate your child's progress.
 - Recognize time well-spent building a foundation for a successful year in math.