

**Mason City Community Schools
Summer Math Activities
For Students Entering Grade 1**



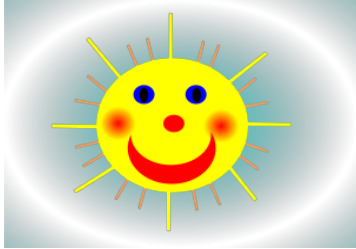
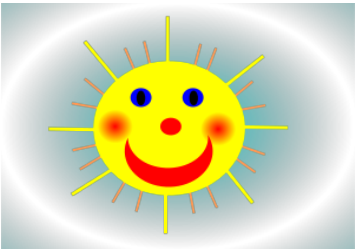
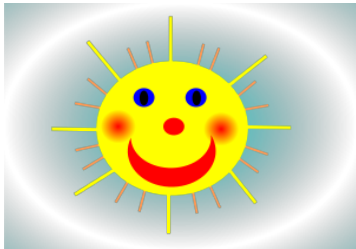
Kindergarten students have learned so much math this year, and we want them to continue practicing those skills over the summer! Here are many fun math activities for practicing math skills and getting ready for first grade. In this packet you will find a chart of activities for June, July and August. They may be done in any order. 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. Please note there is a special activity based on ice cream, Favorite Ice Cream Survey and Graph. There is also a list of books you can look for at The Public Library, and websites appropriate for this grade level.

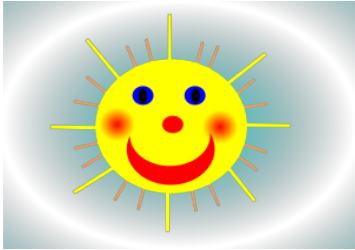
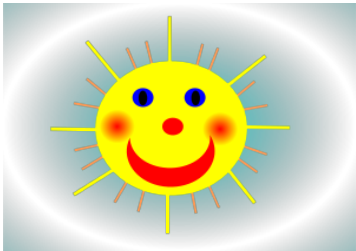
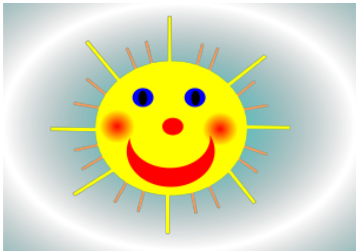
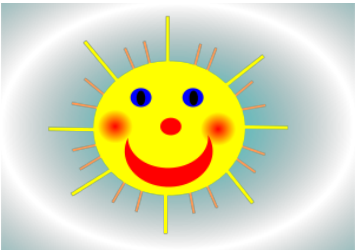
Remember to bring the chart and activities completed on the first day of first grade. Your new teacher will be so proud of your summer math work, and will be looking forward to seeing how much math you have done over the summer!!

Have a safe and happy summer, and Happy Thinking!

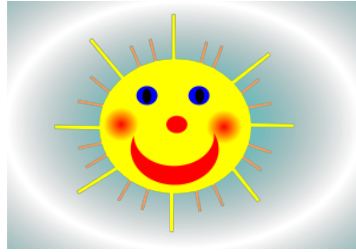
JUNE, JULY, and AUGUST!

(PARENTS, PLEASE REMEMBER TO INITIAL COMPLETED ACTIVITIES.)

<p>#1 Write the names of the people in your house. Count the letters in each name, and circle the name that has the most letters.</p>	<p>#2 Look at the calendar and count how many Fridays are in June, 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 "Cut the Calendar" (Directions attached)</p>	<p>#7 Go on a 2-D and 3-D Shape Hunt. Look for items shaped like a circle, square, cube, sphere, rectangle, cylinder, and prism 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 paperclip to measure the length of 2 objects in your house. Which one is longer? Shorter? Are they the same?</p>	<p>#10 Play "I-Spy" (Write down what you're looking for; shapes, colors, number of windows, etc.) Use tally marks while you count.</p>		<p>#11 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>#12 Play "Dice Addition" (Directions attached)</p>

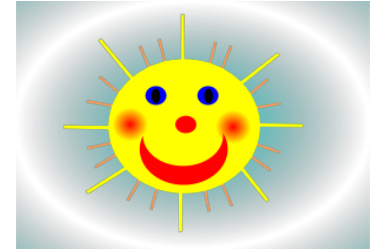
<p>#13 Help set the table for a meal. How many people are there? How many forks, spoons, and knives do you need?</p>	<p>#14 Play "Making 14" (Directions Attached)</p>	<p>#15 Mary saw 3 bees buzzing around the flower. 2 more bees joined them. How many bees are buzzing around the flower now?</p>	<p>#16 Play "Dice Addition" (Directions attached)</p>	
<p>#17 Fill in the missing number 8, ____, 10 11, ____, 13 4, 5, ____ ____, 15, 16 ____, 1, 2</p>		<p>#18 Favorite Ice Cream Survey – Take a survey of people’s favorite ice cream flavor. Print the table and graph sheet in this document to record your results. Put a tally mark next to each flavor chosen.</p>	<p>#19 Ice cream graph- Use the data (tally marks) from your favorite ice cream survey to fill in the bar graph on the survey sheet.</p>	<p>#20 Write the numbers 1 – 5. Draw objects to match each number.</p>
	<p>#21 Count to 100. (by 1’s, 5’s, 10’s, etc.)</p>	<p>#22 Write the numbers 11- 15. Draw circles to match each number.</p>	<p># 23 Flashcard Day! Make flashcards for the doubles 1 - 6, and practice your facts. (1 + 1, 2 + 2, 3 + 3, 4 + 4, 5 + 5, 6 +6)</p>	<p>#24 Write the numbers 6 – 10. Draw objects to match each number.</p>
<p># 25 Write the numbers 16 – 20. Draw squares to match each number.</p>	<p># 26 Flashcard Day! Make flashcards for the doubles 7 - 10, and practice your facts. (7 + 7, 8 + 8, 9 + 9, 10 + 10)</p>	<p>#27 Make two columns on a piece of paper, label one “odd” and one “even” Put the numbers 1 - 20 in the correct column.</p>		<p>#28 Play "Don't Get Mad, Get Even" (Directions Attached)</p>

#29 Make a calendar for August. Write, or draw in fun activities on the days you did them, and fill in the first day of school! (Use the blank calendar, attached.)



#30 Make sure your Math Chart is ready with parent initials. Staple together, or put in a folder your summer math work to share with your new teacher.

#31 Flashcard Day! Practice your facts with all the flashcards you made.



YOU'RE READY FOR FIRST GRADE!

Activities and Games Directions

“Cut the Calendar”

First grade math includes lots of work with two-digit numbers. Here is a great activity for early in the year, to practice recognizing and sequencing numbers from 1-30.

What You Need:

- An old calendar
- Child-safe scissors
- Envelope

What You Do:

1. Ask your child if he knows how many days are in a month. Let him flip through the calendar and explore the answer to this question. Point out that a month can have as few as 28 days, or as many as 31.
2. Cut the calendar apart into individual squares with dates on them. Mix the cards and spread them out in front of your child.
3. Start by having your kid put the numbers in order from least to greatest. If she has trouble with this, flip to another page in the calendar and have her match the number cards to the numbers on the calendar.
4. Help your child arrange the cards in the following ways:
 - single-digit numbers (1-9) and two-digit numbers (10-30)
 - numbers with ones, (such as 1, 11, 21); number with twos, etc.
 - numbers with a one in the tens place (10-19), numbers with a two in the tens place (20-29), and numbers with a three in the tens place (30)

This is a great activity to play again and again, and don't be surprised if your first grade teacher uses “calendar math” regularly in class. Keep the calendar pieces in the envelope for further practice any time.

“Dice Addition”

Get ready to roll a big number with this fast-paced addition game. Each player takes turns rolling a die, racing to add up their points and reach the precise score of 50, without going over. If a player goes over 50, they have to start all over again at 0. This game is a heart-pounding addition competition that's all about the luck-of-the-roll. It's also a fantastic way for your little one to master addition.

What You Need:

- Die
- Scratch paper for each player
- Pencil for each player
- 2 or more players

What You Do:

1. All players start with "0".
2. Ask the first player to roll the die and add "0" to it to find his new sum.
3. Have him record his sum for the roll.
4. Players should continue rolling, recording, and then passing the die and adding to their scores until one of the players reaches 50.
5. When a player reaches 50, encourage them to shout, "50!" to add a little excitement to game play.
6. For older kids looking for a bigger challenge, play the same game using multiplication instead. Ask the players what number they'd like to use as the winning number.

“Making 14”

Your child will quickly learn how to add up to sums of 14 with a game he can play all by himself. Using a deck of cards and his knowledge of addition, he'll strive to lower his score each and every time.

What You Need:

- Deck of cards with the face cards (jacks, queens, and kings) removed

What You Do:

1. Play the first round with your child to make sure he understands the game. Ask him to start by shuffling the deck.
2. Tell him that for the purposes of the game aces = 1.
3. Have him deal out all 40 cards face up into 13 separate piles of 4 cards each.
4. Ask him to turn over the piles, one at a time, and start searching out all of the different combinations of cards that add up to equal 14.
5. Have him play until there are no more moves possible.
6. Count the cards that remain and tally up his score for the round. The lower the score, the better.
7. Have him play again and try to beat his score. With enough practice, he might be able to use all of the cards and get a perfect score of 0!

“Don’t Get Mad, Get Even”

Want a little extra math practice without the drudgery? Try this fun card game that teaches kids the difference between odd and even numbers. While playing, kids will memorize addition facts. All you need is a deck of cards, and you're ready to get started! You'll be helping your child build math confidence as you bolster his ability to differentiate between even and odd numbers.

What You Need:

- ***Deck of playing cards with the face cards (jacks, queens, kings) removed***

What You Do:

1. ***Lay out all of the cards face up, in a horizontal line. For this game, aces= 1.***
2. ***Let your child know that he has one minute to pick out and remove the pairs of cards with even sums (for example, $2 + 6 = 8$). (If your child isn't ready to add, yet, have them separate even cards from odd cards.)***
3. ***Count and record how many cards remain. One card= 1 point.***
4. ***Tell your child that the fewer points he accumulates, the better.***
5. ***Shuffle the cards again and lay them out in a line. In this round, encourage your kid to try to remove more cards than he did the last time!***
6. ***In the final round, give your kid an unlimited amount of time to try to pair up and remove all of the cards. If he's successful, tell him he gets to subtract 10 points from his score.***

This game is great for subtraction and multiplication practice too!

Helpful tip: If you're playing with more than one player, you might want to use multiple decks of cards.

Favorite Ice Cream Survey



Survey 10 people. Put a tally mark for each person's choice, under the ice cream flavor they choose. Add the tally marks to get the total for each flavor. Show the totals on the Ice Cream Graph.

<i>Ice Cream Flavors</i>	<i>Vanilla</i>	<i>Chocolate</i>	<i>Strawberry</i>	<i>Chocolate Mint</i>	<i>Cookie Dough</i>
<i>Tally Marks</i>					
<i>Totals</i>					

Favorite Ice Cream Graph

Draw bars to show the total for each flavor.

10

9

8

7

6

5

4

3

2

1

0

VANILLA

CHOCOLATE

STRAWBERRY

**CHOCOLATE
MINT**

COOKIE DOUGH

My August Calendar

Name: _____

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

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 One 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 Phyliss 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 Emberly's Picture Pie	Louise Matthews Bruce McMillan Loreen Leedy Charlotte Pomerantz Ed Emberly

Probability and Statistics	<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>
Operations	<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>
Spatial Relationships and Geometry	<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 Pat Hutchins Pat Hutchins</p>
Measurement	<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>

Here are some fun and exciting websites to visit over the summer for practice.



At the time this was created, the websites listed were checked by teachers and deemed child appropriate. However, parents should always monitor their child's use of any Internet site.

"IXL" - skills are organized into categories by grade. <http://www.ixl.com/math/grade-1>

"MathABC" includes numbers, addition, subtraction, money, time, and miscellaneous. <http://www.mathabc.com/math-1st-grade>

"Learning Games for Kids" educational math games. <http://www.learninggamesforkids.com/1st-grade-math.html>

"ABCYA" educational games and apps. http://www.abcya.com/first_grade_computers.htm

You will love first grade!!

