

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 mathematical gains you have made over the school year.

Enjoy these activities to explore problem solving at home. The goal is for you to have fun thinking and working collaboratively to communicate mathematical ideas.

While you are working ask how the solution was found and why a particular strategy helped you solve the problem.

You will find 2 calendar pages, one for June and one for July, as well as directions for math games to be played at home. Literature and websites are also recommended to explore mathematics in new ways.



Suggested Math Tools

Notebook for math journal
Regular deck of playing cards

Coins

Pencil

Dice

Chalk

DIRECTIONS:

Do your best to complete as many of these summer math activities as you can! Record your work in your math journal every day.

. Each journal entry should:

- ✓ Have the date of the entry
- ✓ Have a clear and complete answer

Here is an example of a “Great” journal entry:

July 5th
Today I counted all the toes in my family. Here is a picture of the toes.

(Draw a picture)

There are 30 toes. $5 + 5 + 5 + 5 + 5 + 5 = 30$

Cool Math Books to Read: Shape, Shape, Shapes by Tana Hoban

Pattern Fish by Trudy Harris

Ten Black Dots by Donald Crews

Inch by Inch by Leo Lionni

The Button Box by Margarette S. Reid

Games To Play (You will need a deck of cards)

1. Compare

Remove the face cards from a deck of cards. Remember an Ace is the same as 1. Pass out all of the cards in the deck among all of the players. Each player flips over one card at the same time. The player with the higher number keeps both cards. If the two cards are the same, turn over another card. The player with the higher number keeps all four.



2. Double Compare

Same as above, but turn over two cards each time and find the sum. The one with the larger sum takes the cards.

3. Close to 10

Remove the face cards from a deck of cards. Deal 3 cards to each player. Which two cards brings you closest to 10? Which player is closest to 10? Example: You turn over the cards 5, 4, 3 and your opponent turns over an Ace, 9, and 3. You can make 9 (5 and 4) and your opponent can make 9 (Ace and 8) or 11 (8 and 3). It's a tie since you are both 1 away from 10!

Other games to play:

Checkers, Memory, Chutes and Ladders, jigsaw puzzles, Parcheesi, Fish, Crazy Eights, Candy Land, Blink, Connect Four, Legos, K'Nex. Check out the PDF: [Making Math More Fun Board Games](#) that contains a variety of board games for different grade levels.

Fun Websites to Explore:

www.funbrain.com

www.aplusmath.com




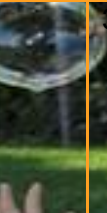


www.pbskids.org

www.illuminations.nctm.org Click on **ACTIVITIES**. Click on **K-2** and press **SEARCH**.



June 2015

Entering First Grade Mathematics Calendar

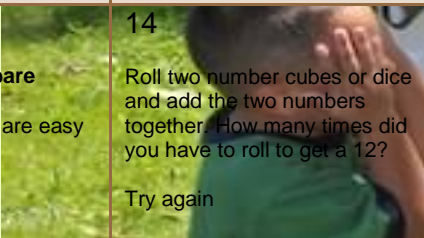
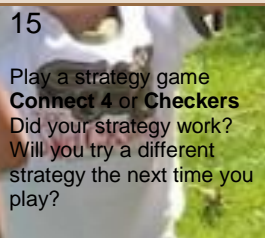
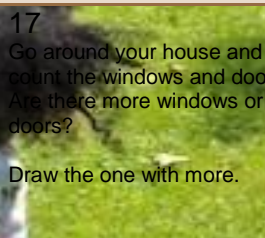
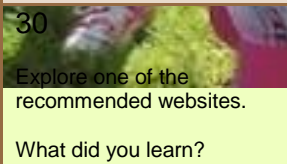
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 	2 	3 	4 	5 	6 
7	8 Look at some of your toys. Try to sort them into groups. Explain to someone how you sorted them.	9 Play Compare (see directions) How did you decide which number is greater?	10 Describe 3 different ways to make 10 cents. Why are the number of coins different?	11 Use sidewalk chalk to write all the numbers (in order) that you can. (Use paper and pencil if you do not have chalk)	12 Toss ten pennies. How many heads? How many tails? Try again! Did you get the same result?	13
14	15 Read Inch by Inch by Leo Lionni. What parts of your body can you use to measure things in your house and outside.	16 Hop on your right foot and count how many hops you can make! Hop on your left foot. On which foot could you make more hops? Compare.	17 Ask your family which food they would like at a cookout. Which food did people want the most? Which food did people want the least?	18 Count by fives to see how long it will take you to put on your shoes.	19 Grab a handful of objects. (Pennies, beads, marbles...) Guess how many there are. Count your objects. Were you close to your estimate?	20
21	22 Keep track of the weather for one week. How many sunny days? Rainy days? How many more rainy days than sunny days?	23 Count the people that live in your house with you. How many toes do they have altogether? How many fingers?	24 Write your name on a piece of paper. How many letters are there in your name? How many letters are there in the names of all your family?	25 Walk around the house. How many steps does it take you to get around your house. Then try giant steps. Which used more steps? How many more steps?	26 How many jumping jacks can you do in one minute? Is it more or less than 20? How do you know?	27
28	29 Make a pattern. Challenge someone to continue it. Can you make a different pattern using the same things?	30 Set the table for dinner! How many plates do you need to put out? How many forks?				

		How many glasses? Make sure everyone has a place				
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July 2015

Entering First Grade Mathematics Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1  How long is your room? Measure with blocks or toys. Measure with your feet. Which was more? Which is less?	2  Draw and label a picture of your family from tallest to shortest	3  Count the number of steps it takes to get from your front door to the refrigerator. Represent this with a number.	4
5	6 Find 10 coins in your house. What is the total value of the coins? Is it more or less than 25 cents?	7 Name five different places you see numbers outside. (on street signs, stores, license plates...) Draw a picture of the places	8 Read Pattern Fish by Trudy Harris Draw, build, or sing your own pattern.	9 Draw what you are doing at 2 different times today when the minute hand of the clock is on the "12"	10 Do a yes/no survey asking the people in your house, "Do you like the rain?" Circle which side has the most answers.	11
12	13 Play Double Compare (see directions) What number facts are easy for you?	14  Roll two number cubes or dice and add the two numbers together. How many times did you have to roll to get a 12? Try again	15  Play a strategy game Connect 4 or Checkers Did your strategy work? Will you try a different strategy the next time you play?	16  Estimate how many spoonfuls it will take to finish your cereal. Count each spoonful as you eat. How close were you to your estimate?	17  Go around your house and count the windows and doors. Are there more windows or doors? Draw the one with more.	18
19	20 Pick a number from 1-12. Find that number around your house! Look at clocks, phones, books, magazines, etc... Pick another number	21 Read Ten Black Dots by Donald Crews Name different objects that come in groups of 1,2,3,... Make your own book	22 Tell an adult in your home something you did yesterday. Tell them something you will do tomorrow.	23 Play Close to 10 (see directions) How does this help you to practice your facts?	24 Practice "counting" on from numbers other than 1. Example: Start at 4, 5, 6... Start at 17, ... Start at 32, ...	25
26	27  Build something with 20 blocks, Legos, or objects. Describe your structure and the shapes you used.	28  Play with bubbles. How many can you blow in one minute? What can you do to blow more bubbles in one minute?	29  Read The Button Box by Margarett Reid Find a collection in your house to sort.	30  Explore one of the recommended websites. What did you learn?	31  Read The Button Box by Margarett Reid Find a collection in your house to sort.	

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