

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 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

Crayons

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 collected 25 cents. It was easy to count 25 pennies.
I know that 5 pennies is the same as 1 nickel so every time I counted five pennies

I exchanged it for a nickel, so I needed 5 nickels.

$$5 + 5 + 5 + 5 + 5 = 25 \text{ cents}$$

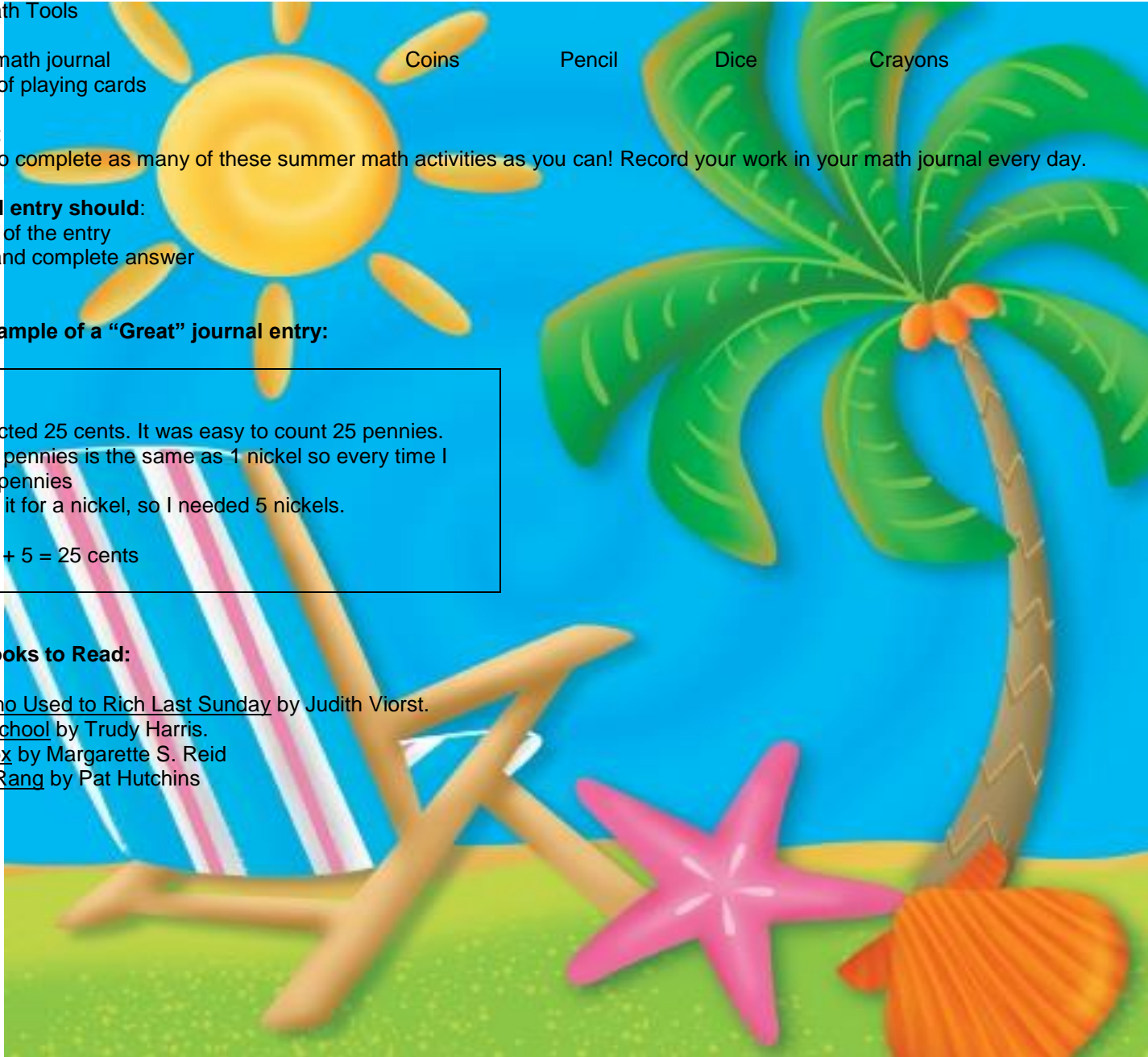
Cool Math Books to Read:

Alexander, Who Used to Rich Last Sunday by Judith Viorst.

100 Days of School by Trudy Harris.

The Button Box by Margarette S. Reid

The Doorbell Rang by Pat Hutchins



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 two cards at the same time and finds the sum. The one with the larger sum takes the cards. If the sums are the same, turn over 2 more cards. The player with the largest sum keeps all four cards.

2. Tens Go Fish

Remove the face cards from a deck of cards. Deal 5 cards to each player. Each player looks for cards that make a sum or difference of 10, and they draw new cards from the deck to replace them. Players take turns asking each other for a card that will make a sum or difference of 10 with a card from their hand. A player's turn is over when no more pairs can be made. The game is over when there are no more cards. Both players record their combinations of sums and differences for 10.

3. Close to 20

Remove the face cards from a deck of cards. Deal 3 cards to each player. Players select two cards with a sum 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, 8, 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!

4. Bowling for Addition

1. Cut wide bands out of the paper for each soda bottle, and number each one with different point values from 1 to 10.
2. Wrap one strip of paper around each bottle, and have your child tape it down for you.
3. Arrange the bottles in a triangular shape at the end of a long hallway or uncarpeted room, with one pin in the front, two behind it, three behind those and so on.
4. Divide a page in the notepad into columns, one for each player. Write each person's name at the top of the column so that you can keep score of everybody's points.
5. Now play! Take turns rolling the ball towards the pins and see how many you can knock over in one try! Count up the numbers on each pin that gets knocked over and recruit your child to help you keep score so he can practice his addition. Whoever gets the most points wins! Make some victory snacks to enjoy together when the game is over.
6. If you want to make the game a little more challenging, try filling the bottles with a small amount of sand so they're harder to knock over!

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 Second Grade Mathematics Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
					 Take 7 pennies. Put some in 1 hand and some in the other hand. Show 1 hand and have an adult figure out how many are hiding. Switch. Vary the activity with different numbers of pennies or telling the total and showing an amount in one hand and figuring the amount in the other hand.	
8	9	10	11	12	13	14
	Read 100 Days of School by Trudy Harris. Find 5 different ways to reach 100. Record each method for getting to 100.	Play Tens Go Fish (See directions) Add up all the pairs. Who has more? How many more?	Go on a Shape Hunt around your home. Look for items in the shape of a pentagon, octagon, and a hexagon. Draw and label the items.	Today's number is 12 Make 12 by: -Adding two numbers -Subtracting two numbers -Adding three numbers	If you save two cents every day in the month of July, how much money will you have saved at the end of the month?	
15	16	17	18	19	20	21
	Roll two dice and practice addition and subtraction by adding or subtracting the two numbers	How many ways can you make 50 cents using pennies, nickels, dimes, and quarters?	Play Patch Tool on the Website www.illuminations.nctm.org Choose 2 shapes. Make a pattern. Describe the pattern.	Read Alexander, Who Used to Rich Last Sunday by Judith Viorst. Keep track of how you would spend \$10.00	Jump rope and count by tens to 100. Try counting backward from 100 by 5s.	
22	23	24	25	26	27	28
	Read The Button Box by Margarete Reid. Find a collection at home and sort it. Ask a friend to figure out how you sorted.	Play a strategy game like Mancala or Connect Four . Would you use the same strategy the next time you play?	Play Bobbi Bear www.illuminations.nctm.org How many outfits can you create with 2 shirts and 2 pants?	Gather a handful of coins with a value less than \$2.00. Calculate the total.	Estimate the number of measuring cups it will take to fill a pitcher. Test it out! Experiment with different size containers.	



29	30 Tell the time that you do 4 special activities to the closest hour or half hour. Draw a picture of the clock's hands for each activity.
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July 2014 Entering Second Grade Mathematics Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Ask 10 people their favorite kind of pizza. Record your data in a table, chart, or graph.	2 Read 98,99...Ready or Not, Here I Come! By Teddy Slater. Play hide and go seek counting backwards from different numbers to 100.	3 50 is the answer. What could the question possibly be? Challenge yourself to think of more questions.	4 How many times can you dribble a basketball in 1 minute? 2 minutes? Can you beat your first time?	5
6	7 Hold an ice cube in your hand. Count by 2's until it melts. Did you count to more or less than 100! What could you do differently so that when you reached 100, the ice cube turned into water?	8 Using a ruler, find 5 things longer than 12 inches and 5 things shorter than 12 inches.	9 Ask 5 people their phone numbers. Add the digits of each phone number together. Whose phone number has the greatest value?	10 Visit the website www.funbrain.com and practice some math. Record what you did.	11 Read Super Sand Castle Saturday by Stuart Murphy. Make a sand castle and describe the 3-D shapes	12
13	14 Make a calendar for this week. Record the temperature each day. At the end of the week, compare your city's temperature with the temperature of another state.	15 Go to the park and draw the shapes you see. Do you see more shapes with 4 or fewer sides or more shapes with more than 4 sides?	16 Read The Doorbell Rang by Pat Hutchins. Make cookies with your family! Can you share them equally? How many are left over?	17 Play a strategy game like Checkers or Connect Four . Would you use the same strategy the next time you play?	18 In one blow, how many bubbles can you make? What are the most bubbles you can blow at one time? What did you do differently to blow more bubbles?	19
20	21 A ball is symmetrical because you can cut it in half and both halves will be the same. Find 5 things in your house that are symmetrical.	22 Estimate how long it will take you to read 10 pages. Try it!	23 Play Tens Go Fish (See directions) Add up all the pairs. Who has more? How many more?	24 Grab a handful of items such as cereal, beans, etc. Estimate how many pieces you grabbed. Now count them. Was your estimate close?	25 Go for a walk in your neighborhood and look for odd and even numbers.	26
27	28 Visit the website	29 Sit outside and use tally marks to record how many	30 Play Close to 20 .	31 Blow a marble, a bottle cap and a pencil across a table. Estimate how far they will travel. Then measure how far they traveled. What is the difference in the distances the objects traveled?		

	birds you see in ten minutes.	How does this help you to <u>practice</u> your addition?	Would the results be the same on different surfaces?		
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