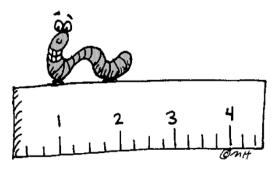
Summer Math Calendar Fourth Grade



Get ready to discover math all around you this summer! Just as teachers encourage students to continue reading throughout the summer to solidify and retain reading skills, we feel the same attention should be given to mathematics. Regular practice over the summer with problem solving, computation, and math facts will maintain and strengthen math gains made over the school year. The Math Specialists of Brookline have created this summer math calendar to provide your child and your family with a variety of math activities to explore this summer.

Inside you'll find creative activities that include measuring and counting everyday objects, math games, riddles, basic facts practice, math web sites and math literature books (available through Brookline's public libraries). The goal is for your child to have fun thinking and working collaboratively with you while communicating his/her mathematical ideas. While you are working on these activities, ask your child **how** he found that solution or **why** she chose that strategy. These activities help reinforce the concepts/skills your child learned this past year so that s/he can retain them over the summer.

This packet consists of 2 calendar pages, one for July and one for August, an alternate summer math calendar as well as directions for math games to be played at home. (Note: a substitute for numeral cards can be a regular deck of cards without the face cards or Uno cards.) Each month's activities are organized into 28 "math boxes." *You can choose which activities you'd like to complete on which day*. We encourage your child to complete 20 math boxes each month. After completing a box, color it in. In September return the calendar, with your signature, to your child's new teacher.

We recommend that you integrate an average of 15-20 minutes of math activities into your child's day, including completing the enclosed activities *and* reviewing basic facts. Number facts can be practiced and reinforced through repeated use in games, real-life problems, songs, rhymes, and cards. Help your child to identify "FACTS I KNOW" and the "FACTS I AM WORKING ON." Think of regular and convenient times to review these facts, such as waiting in line, driving in a car, riding the train, reading time, etc.

We hope that you will enjoy the activities, extend them, create new ones and have fun!

Public Schools of Brookline K-8 Mathematics Department

We welcome your feedback on the calendar (tara_washburn@brookline.k12.ma.us).



July Fourth Grade Calendar Brookline



Directions: Complete any 20 math boxes and color in the box after you complete it. Return the Math Calendar to school in the fall.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3 x 4	Play <i>Chairs</i>	How many different	Record the temperature	Use your temperature		4 x 4
3 x 5	on the web.*	ways can you make	for 5 days.	data to create	Play the game	5 x 5
7 x 6	Mode: Guess	\$3.25?	Temp	a bar graph.		6 x 6
7 x 7	If you have 8 tables,		Temp 🔶	→ · · ·	Close to 100.	7 x 7
What clues help you?	what's the greatest	How many quarters	Temp	What do you notice?	(see directions)	8 x 8
Skip count by 3s	number of people you	can you have if you	Temp	-		9 x 9
forward & backward.	can seat in a line?	have \$3.25?	Temp			Name the pattern.
	Play Product Game	25 x 2	Read	What time is it now?		What cars are parked
Begin with 12 and	on the web.*	25 x 3	●Jump Kangaroo,		Play a game	on your street?
count by 3s to 36.	Read the directions	25 x 4	Jump! By Stuart	What time will it be	like	
	carefully. Move the	25 x 5	Murphy.	in 6 ¹ / ₂ hours? What	Checkers, Mancala,	Create a table of the
Begin with 12 and	rectangles at the	25 x 6	Divide 24 toothpicks	time was it 15	Chess, Blokus or	make of cars parked
count by 4s to 48.	bottom to try to get 4	25 x 7	into equal groups.	minutes ago? 18	Soduko.	on your street (ex.,
	products in a row.	What's your strategy?	What is $\frac{1}{3}$ of 24?	minutes ago?		Honda, Toyota).
How many Cheerios	If you took a ¹ / ₂ cup	325 + = 375	If Mia painted 400	Read	If the movie actually	Read
or macaroni can fit in	of Cheerios or	500 = 475 +	finger nails, how	 Spaghetti and 	began at 7:05 and	▼ Amanda Bean's
a ½ cup?	macaroni and lined	+550 = 600	many people did she	Meatballs for All	finished at 8:45, how	Amazing Dream by
←	them up, how long do	$275 + _ = 350$	see?	by Marilyn Burns.	much time elapsed?	C. Neuschwander.
Estimate how many	you estimate your	300 = 225		If 64 guests sit at		
Cheerios or macaroni	line will be?	220 += 350	If the vet examined	tables of 4 people,	If you left home at	A farmer has 10
would fit in 1 cup?		440 = 125 +	26 dogs, how many	how many tables do	6:35 and returned at	cows, 15 ducks, 12
What about 1/4 cup?	Measure your line		paws did she see?	you need?	9:05, how long were	pigs. How many legs
	using cm and inches?	What's your strategy?		Write an equation.	you out?	are on the farm?
	Survey 10 people	What number am I? I	Play Concentration	134 + 10	As of today's date,	Estimate the Wins
Play the game	about their favorite	am less than 25x10	on the web.* Choose	144 + 100	record the Wins and	and Losses at the end
	ice cream or popsicle	and greater than	cards: fractions	244 + 20	Losses of the Red	of the season.
Race to Zero.	flavor.	22x10. I am a	games: face down	264 + 200	Sox this season.	Wins
(see directions)	Create a pictograph to	multiple of 5. I am	Draw pictures that	384 - 30		Losses
	show the results.	odd. The sum of my	represent:	464 - 10	Wins	Explain your thinking
	Remember to use a key.	digits is 10.	$\frac{1}{4}, \frac{2}{3}, \frac{1}{2}, \frac{3}{4}.$	What's your strategy?	Losses	to an adult.

* Website Directions: Go to: illuminations.nctm.org Click on ACTIVITIES. Click on 3-5 and press SEARCH.

grade 3.July calendar.07

• Book is available through Brookline's public libraries or Minuteman library network (\mathbf{V})

Parent's Signature:

Created by the Math Department, Public Schools of Brookline, 2007

Child's Name:



August Fourth Grade Calendar Brookline



Directions: Complete any 20 math boxes and color in the box after you complete it. Return the Math Calendar to school in the fall.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	What number do you	Count the change an	4 x 4	Find out your height	6 x 4	Explore a website*
Play a game	add to 74 to get 100?	adult has this	4 x 5	and/or weight.	6 x 5	^
like	C C	morning.	4 x 6	How many telephone	6 x 6	Play Bobbie Bear.
Checkers, Mancala,	What are 2 numbers	Count the change an	4 x 7	books would it take to	6 x 7	Choose: Customize
Chess, Blokus or	you can add to 245 to	adult has this evening.	What clues help you?	equal your weight?	What clues help you?	How many outfits can
Soduko.	get 300?	What's the	Skip count by 4s	Your height?	Skip count by 6s	you make with 4
	245 + + = 300	difference?	forward & backward.	Estimate and check.	forward & backward.	shirts and 3 pants?
Roll 2 dice together	Play Pan Balance-	I am thinking of an	Read	How many hours did		60 ÷ 5 =
and multiply to find	Shapes (Fixed	even number. It is	▼ One Hundred	you sleep last night?	Play a game	55 ÷ _ = 5
the product. Record	<i>Values)</i> on the web.*	greater than 7x6 and	Hungry Ants by			$50 \div 5 =$
the products. Do this		less than 6x10. It has	Elinor Pinczes.	Bedtime:	Race to Zero.	45 ÷=5
25 times. Create a bar	Find 3 combinations	a factor of 7. What		Woke up:	(see directions)	35 ÷ 5 =
graph with the results.	that balance 2 purple	number am I?	Describe 4 ways to			
What did you notice?	triangles.		group 108 ants?	Hours: Min:		What's your strategy?
8 x 4		9 x 4	Finish the table.	Read	If you called your	Find the perimeter of
8 x 5	Play a game	9 x 5	What's the rule?	• Fraction Fun by	cousin in London at	the front of a cereal
8 x 6		9 x 6	Input Output	David Adler.	8:00 pm Boston time,	box in cm.
8 x 7	Close to 100.	9 x 7	2 50		what time would it be	Can you draw a
What clues help you?	(see directions)	What clues help you?	4 100	Which is larger ² / ₃ or	in London?	different shape with
Skip count by 8s		Skip count by 9s	200	³ ⁄ ₄ ? How do you	(hint: London is 5	the same perimeter?
forward & backward.		forward & backward.	6	know? Prove it.	hours ahead)	Use a cm ruler.
Read	Find a shoebox and	Looking at a	Play	How many seconds	Is there a street	Estimate the number
•Dave's Down-to-	measure the perimeter	calendar, ask a friend	Concentration	are in 5 minutes?	parallel to your	of pieces of flatware
Earth Rock Shop by	of the top of the box.	to choose 4 days that	on the web.* Choose		street? Look on a map	in your kitchen.
Stuart Murphy.	If a stamp is 1 inch by	form a square. Your	cards: fractions,	How many minutes	and find 2 streets that	Count to check. How
Collect 24 rocks (or	1 inch, how many	friend should tell you	games: face down	are in 4 hours?	are parallel and 2	many people could
shells). How many	stamps would you	only the sum of the 4	Make matching cards		streets that are	you serve at 1 time?
different ways can	need to make a border	dates and you	on index cards and	How many seconds	perpendicular to each	
you organize them?	around the top?	determine the dates.	play with a friend.	are in 2 ¹ / ₂ minutes?	other.	Est: Exact

* Website Directions: Go to: illuminations.nctm.org Click on ACTIVITIES. Click on 3-5 and press SEARCH.

grade 3.August calendar.07

• Book is available through Brookline's public libraries or Minuteman library network (**V**)

Parent's Signature:

Child's Name:

Created by the Math Department, Public Schools of Brookline, 2007



You will need:

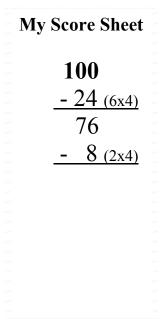
- 2-4 players
- 2 dice
- paper (for scoring) and pencils for each player

How to play:

- Each player begins by writing 100 at the top of their paper.
- Determine which player goes first by rolling 2 dice each. Player with the highest **product** (of the 2 rolled numbers) goes first.
- Player 1 rolls the two dice and multiplies the numbers to find their **product**. Player 1 then subtracts that product away from 100 and records the remaining difference on his/her score sheet. (*For example, if you rolled 6 and 4, your product would be 24. Then you'd subtract 100-24 to get the difference of 76.*)
- Player 2 takes a turn.
- In the following turns, players roll the dice, calculate the product, and subtract the products from the new remaining number.
- If a player cannot subtract his/her product, that player loses his/her turn.
- The first player to reach zero exactly wins.

Variations:

You could substitute playing cards (1-6) for the dice. Divide the deck of cards into 2 piles, face down. Instead of rolling dice, the player would flip a card from each pile and multiply the numbers to find their product.





6 For the next round, deal four new cards to each player. Make more numbers that come close to 100. When you run out of cards, shuffle the discard pile and use those cards again.

Five rounds make one game. Total your scores for the

five rounds. The player with the LOWEST score wins.

give you a total that is close to 100.

3 Write these two numbers and their total on the *Close* to 100 Recording Sheet; for example, 42 + 56 = 98.

• Find your score. Your score is the difference between

• Put the cards you used in a discard pile. Keep the two cards you did not use for the next round.

your total and 100. For example, if your total is 98, your score is 2. If your total is 105, your score is 5.

or in a small group.

Close to 100

Digit Cards (deck of 44)

Close to 100 Recording Sheet

Deal out six Digit Cards to each player.

for each player

Play alone, with a partner,

Use any four cards to make two numbers; for example, 6 and 5 could

make either 56 or 65. Wild cards can be used as

any numeral. Try to make numbers that, when added,



You need

D

2



Trading Stickers, Combin		Date		
Close to 1	00 Recordi	ng Sheet		
Game 1		-		
Round 1:	+		Score	7
Round 2:	+	_ =		
Round 3:	+	_ =		
Round 4:	+	_ =	·	_
Round 5:	_ +	_ =		_ 1
				- 1
		TOTAL SCO	ORE	- 1
ound 3:	+ + = + = = = = = = = =	=	Score	
		TOTAL SCORE		
Unit 1		Sessions 2	22, 23, 25, 26, 27	

Date

Name







Close to 100 Recording Sheet

Game 1	Score
Round 1: + =	
Round 2: + =	
Round 3: + =	
Round 4: + =	
Round 5: + =	
TOTAL SCORE	

Game 2	Score
Round 1: + _	=
Round 2: + _	=
Round 3: + _	=
Round 4: + _	=
Round 5: + _	=
Т	OTAL SCORE

Alternate Summer Math Calendar for Grade ____

If the activities suggested don't seem to "fit" your child, or if you have your own websites/literature/math practice you'd like to do, you can create-your-own math calendar. Feel free to substitute your own activities in this Alternate Summer Math Calendar or mix-and-match some of the grade-level activities with some other activities that better suit your needs or learning style. All we ask is that you document your created activities below. Remember: the goal is to complete 20 activities each month (so you may need an extra recording sheet).

No.	Date Completed	Description of Math Activity
1	Compieter	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Child's name: _____

Parent signature:

Remember, we welcome your feedback! Send your thoughts/suggestions to: tara_washburn@brookline.k12.ma.us