



## Entering Grade IV

### Summer Math Calendar: JULY

There are 25 “math boxes.” We encourage you to complete **20 boxes per month**. **Color in each box** as it is done. Many of the games and activities can (and should) be played over and over--so feel free to substitute.

How many more days of summer do you have left? Is that number even or odd? How many weeks is that?	What are the next two numbers in this sequence: 76, 62, 48, 34, 20.....	Play a game like Othello or Checkers. What strategy did you use? Would you use the same strategy again?	Name three spheres, four rectangular prisms, two cylinders, and one truncated icosahedron that exist in the real world.	Draw a design that has symmetry.
Count by 7's starting at 15 as far as you can or until you get really, really tired.	Play Deep Sea Duel at <a href="https://illumination.nctm.org/DeepSeaDuel/">https://illumination.nctm.org/DeepSeaDuel/</a>	Write a story problem to go with the following number sentence: $9 \times 7 = \underline{\hspace{2cm}}$	32 is the answer. What is the question? Think of some story problems using each operation.	How many different ways can you make \$1.00 using quarters, nickels, and dimes?
Make a data table to record the high temperatures for the next 7 days. What do you notice?	Draw a design with 6 perpendicular lines and 3 parallel lines. Can you make it look like something?	Figure out your age in months. Challenge: Figure out your age in weeks, in days, and in hours.	What are the next two numbers in this sequence: 1, 2, 4, 7, 11, 16 ...	Patch Tool at <a href="https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Patch-Tool/">https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Patch-Tool/</a> How different ways you can make the same shape?
Get a menu from a restaurant and add up what it would cost for your family to eat there.	Find 4 ways to divide 100 into 4 equal groups.	Write a story problem to go with the following number sentence: $45 \div 9 = \underline{\hspace{2cm}}$	How many seconds are in 5 minutes? How many minutes are in 4 hours? How many seconds are in 2 ½ minutes?	Find an object that is a rectangular prism. How many faces, vertices, and edges does it have?
I am thinking of a number. It is greater than $7 \times 6$ and less than $5 \times 10$ . 7 is a factor of this number. What number am I?	Estimate the population of: --The world --The USA --Massachusetts --Boston Look up the real numbers. How close were you?	Which is larger, $\frac{2}{3}$ or $\frac{3}{4}$ ? How do you know? Prove it.	Draw rectangles that have a perimeter of 20 units. Find the area of each rectangle that you drew.	36 people are eating lunch together and want to share sandwiches. If each person eats $\frac{1}{4}$ of a sandwich, how many sandwiches should be ordered?



## Entering Grade IV

### Summer Math Calendar: AUGUST

There are 25 "math boxes." We encourage you to complete **20 boxes per month**. **Color in each box** as it is done. Many of the games and activities can (and should) be played over and over--so feel free to substitute.

I mow the lawn beginning at 2:30 p.m. I mow for an hour and ten minutes. I stop for a lemonade break. Then I mow for another 25 minutes. I finish mowing at 4:30. How long was my lemonade break?	Tyrell has a grid made up of 16 equal squares. How many squares should he color if he wants to color $\frac{1}{2}$ ? $\frac{1}{4}$ ? How about $\frac{1}{8}$ ?	Notice shapes today. Can you find an example of every regular polygon with less than 11 sides?	Grab 10 coins and record the value. Grab 10 more coins and record that value. What is the difference between the two?	Play Deep Sea Duel at <a href="https://illuminations.nctm.org/DeepSeaDuel/">https://illuminations.nctm.org/DeepSeaDuel/</a>
Patch Tool at <a href="https://www.nctm.org/Classroom-Resources/Illuminations/Interactivities/Patch-Tool/">https://www.nctm.org/Classroom-Resources/Illuminations/Interactivities/Patch-Tool/</a> How different ways you can make the same shape?	Draw a number line from 0 to 5. Label the following fractions: $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , $1\frac{1}{2}$ , $4\frac{3}{4}$	List all the factors of 36. List all the factors of 48.	Have a scavenger hunt for real examples of right angles. <i>example: the corner of a book.</i>	Draw a design that has at least two lines of symmetry.
If Mia painted 400 fingernails, how many people did she see? If the vet examined 26 dogs, how many paws did she see?	Watch t.v. for a half an hour. How many commercials do you see? What fraction of the half hour was spent watching commercials?	Pick a two-digit number, multiply it by 10 and subtract the original number. Is this number divisible by 9? Why? Try it 4 more times!	101 is the answer. What is the question? Think of some story problems using each operation.	You went shopping with a \$5 bill and spent \$2.40. Is your change more or less than 40 dimes? Prove your answer.
Plan a meal for your family. With an adult, make a list of ingredients, go shopping, and then follow the recipes.	<i>Today's Number is 200.</i> Write 10 ways to make 200. Each equation should have addition and subtraction .	Play a strategy game like Mancala or Connect Four. Would you use the same strategy next time you play?	A farmer has chickens and cows. What combination of animals could he have if there is a total of 24 legs? Is there more than one combination?	Play Deep Sea Duel at <a href="https://illuminations.nctm.org/DeepSeaDuel/">https://illuminations.nctm.org/DeepSeaDuel/</a>
Skip count by 3s starting at 16 as far as you can or until you are really, really tired.	Go on a road trip. Write down the miles on the odometer when you leave. Write down the miles when you get home. How many miles did you travel?	Play <i>The Product Game</i> at <a href="http://illuminations.nctm.org/Activity.aspx?id=4213">http://illuminations.nctm.org/Activity.aspx?id=4213</a> record a strategy that you use.	Write a schedule for tomorrow that includes the hours and minutes of your activities.	YOU DID IT! Please bring your calendars and any other cool math you did on the first day of school!