

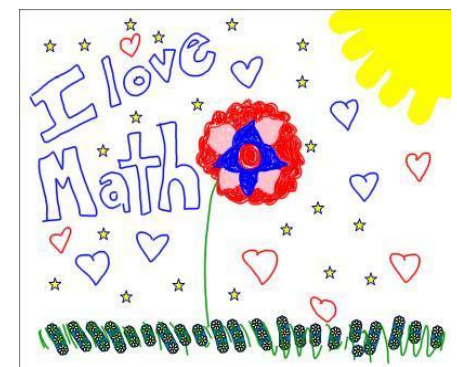
Summer Math Learning Packet

Students Entering Grade 6

Discover mathematics all around you this summer!!! Just as with reading, regular practice over the summer with problem solving, computation, and math facts will maintain and strengthen the mathematical gains you made over the school year.

Attached to this letter, you will find creative mathematics activities to explore 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 was chosen.

The Summer Math Learning Packet consists of 2 calendar pages, one for July and one for August, as well as directions for math games to be played at home. Literature and websites are also recommended to explore mathematics in new ways. We encourage you to complete at least 15 math days each month. Keep track of your math in a journal.



Fun math books to read	Fun websites to explore
<p><u>A Gebra Named Al</u> by Windy Isdell <u>Math Curse</u> by Jon Scieszka <u>Chasing Vermeer</u> by BlueBalliett <u>Counting on Frank</u> by Rod Clement <u>Guinness Book of Records</u> by Time Inc <u>Mathematicians are People Too</u> by Luetta Reimer & Wilbert Reimer</p>	<p>www.funbrain.com www.aplusmath.com www.pbskids.org https://illuminations.nctm.org/ www.setgame.com www.multiplication.com http://mathforum.org/index.html Virtual Manipulatives More Virtual Manipulatives Which one does not Belong https://solveme.edc.org/Mobiles.html</p>

Student Participation

The intention is that your child spends at least 10 minutes a day, 4 to 5 times a week, practicing math. When your child has completed the math requirements, please sign and return this paper to the sixth grade teacher with his/her journal.

Parent's signature _____

Date _____

Boston Public Schools Summer 2022

Some of these activities have been adapted from materials developed by Cambridge and Brookline Public Schools

Grade 6 Summer Math Ideas

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. In September, share your Math Journal with your sixth grade teacher.

Each journal entry should

- Have the date of the entry
- Have a clear and complete answer
- Be neat and organized

Math Tools You'll Need:

- Notebook for math journal
- Pencil
- Crayons
- Regular deck of playing cards
- Coins
- Dice

Here is an example of a "Great" journal entry:

July 23rd

Today's number is 144.

$$12 \times 12 = 24 \times 6 = 48 \times 3$$

1

$$1440 \div 10 = 12 \div 12$$

$$143 + 1 = 121 + 23$$

Other games to play: Checkers, Othello, Memory, Set, jigsaw puzzles, Parcheesi, Crazy Eights, Connect Four, Legos, etc.

July 2022 Entering Sixth Grade Mathematics Calendar

<p>Day 1</p> <p>What is the perimeter of your room measured in feet and inches? in meters and cm?</p>	<p>Day 2</p> <p>Square the following numbers: 8, 10, 6, 7, 9, 11</p>	<p>Day 3</p> <p>Fireworks can go up 1000 feet in around 3 seconds. Whats is its average vertical speed in feet per second and miles per hour?</p>	<p>Day 4</p> <p>Find the sum of the digits of your phone number. What numbers is it divisible by?</p>	<p>Day 5</p> <p>Six friends have 4 sandwiches to share. What fraction of a sandwich will each person get?</p>
<p>Day 6</p> <p>Express the number 50 in at least 25 different ways. Use all 4 operations and include fractions and decimals.</p>	<p>Day 7</p> <p>How many 25s are in 300? How many 20s are in 4,000?</p>	<p>Day 8</p> <p>Try a new activity at http://www.coolmath4kids.com</p> <p>Challenge yourself. What did you chose to do?</p>	<p>Day 9</p> <p>Predict the number of times a 6 will occur when you roll a die 50 times. Roll the die and record the results- are they the same as your prediction? Why?</p>	<p>Day 10</p> <p>Count cricket chirps for 15 sec. Add 39. This will give you the Fahrenheit Temperature outside. Try it on 3 different days. Does it work?</p>
<p>Day 11</p> <p>Choose a favorite professional athlete and research their annual salary. How much do they earn in a month? A day?</p>	<p>Day 12</p> <p>Read a book from the suggested "Great Math books to Read" What new vocabulary did you use?</p>	<p>Day 13</p> <p>Measure and record the heights of each member of your family in inches. What is the difference between the tallest and the shortest persons?</p>	<p>Day 14</p> <p>A California Condor has a 114 in. wingspan. How many feet is that?</p>	<p>Day 15</p> <p>I am an even, 3 digit palindrome. (ex: 464) The product of the digits is 8. What number am I?</p>
<p>Day 16</p> <p>Record the time you go to bed and get up for 1 week. Figure out the total hours & minutes. Find the mean, median, and range.</p>	<p>Day 17</p> <p>Try "Beatcalc" at http://mathforum.org/index.html</p>	<p>Day 18</p> <p>Plan a meal for your family. With an adult, make a list of the ingredients, go shopping, and then follow the recipe.</p>	<p>Day 19</p> <p>Try the Weigh the Wangdoodles at http://mathplayground.com/</p>	<p>Day 20</p> <p>Today's number is 144 Make 144 by: -Multiplying two numbers -Dividing two numbers -Adding odd numbers</p>
<p>Day 21</p> <p>A farm has cows and ducks. There are 78 feet and 27 heads. How many of each animal are there? How do you know?</p>	<p>Day 22</p> <p>Cut a string 1 meter long. Identify and record 10 items that are this length.</p>	<p>Day 23</p> <p>I am thinking of an odd number. The digits in my number are 4, 3, 2, 6. My hundreds place is less than my thousands place and less than my tens place. What number am I?</p>	<p>Day 24</p> <p>Bill and Carol buy a pizza that is cut into 8 equal slices. If Bill eats $\frac{1}{8}$ and Carol eats $\frac{1}{4}$ of the pizza, how many eighths of the pizza are left?</p>	<p>Day 25</p> <p>Choose a geometry activity at Math Illuminations http://illuminations.nctm.org/activitysearch.aspx</p>

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August 2022 Entering Sixth Grade Mathematics Calendar

Day 1	Day 2	Day 3	Day 4	Day 5
Is a 3 gallon pitcher large enough to hold 25 pints of juice? Explain.	Play Sudoku from the newspaper. How did logic help you to solve the puzzle?	How many blades of grass are in one square yard of your backyard? Use logic, measurement, and problem solving strategies to find the answer.	Read a book from the suggested " Great Math Books to Read " What new math did you discover?	If 210 children and 45 adults are going on a field trip, how many buses do they need? Each bus can seat 50 people. How many empty seats will you have?
Day 6	Day 7	Day 8	Day 9	Day 10
Read <u>Guinness Book of Records</u> by Time Inc. What record surprised you the most? Why?	I am a number less than 50. When divided by 5, my remainder is 4. Who am I? Is there more than 1 correct answer?	How many minutes in 1 hour? How many seconds in 1 hour? How many minutes in 1 day? How many seconds in 1 day?	Jen is 12. Amy is 13. In 25 years, what will be the product of their ages?	Help! I have 17 eggs but I want 113! How many more do I need? How many egg cartons (dozen sized) do I need to carry 113 eggs?
Day 11	Day 12	Day 13	Day 14	Day 15
Try a new activity at www.coolmath4kids.com Challenge yourself. What did you choose to do?	Survey 10 friends or relatives to find out their favorite outdoor activity. Graph the results.	Kate's garden is in the shape of a square with a perimeter of 32 feet. What is the area of her garden?	Play the <i>Product Game</i> at www.illuminations.nctm.org Record the strategy that you used.	Play a game. What strategy did you use? Would you use that strategy again?
Day 16	Day 17	Day 18	Day 19	Day 20
If you save two cents everyday in the month of July, how much money will you have saved at the end of the month?	Barry bought a roll of ribbon to make bows for his gift boxes. There were 132 inches of ribbon on the roll. How many feet of ribbon was that?	The largest prime number less than 30 is _____?	If it takes 13 minutes to charge a smartphone from 5% to 20% battery, how long would it take to go from 0% to 100%? Assume the rate is constant.	YOU DID IT! Please bring your journal to your sixth grade teacher on the first day of school!