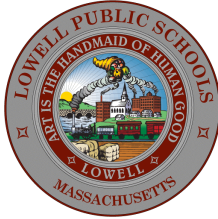


Lowell Public Schools  
Curriculum, Instruction, and Assessment  
Henry J. Mroz Administration Office  
155 Merrimack Street  
Lowell, Massachusetts 01852




## Get Ready for School! Summer Mathematics Activities 2020 Entering Grade 6

Dear Guardian and Student,

Just like reading, regular practice over the summer with math will help your child prepare for entering the next grade. Please use the math activity list to have fun talking and doing mathematics together! Remember to always ask your child, "How did you figure it out?"

To use the math activity list:

- This summer try to complete the number of activities recommended for your grade level.
- When you do one, cross it off. Write down on the log on the back of this sheet which activity you did.
- Bring the log back to your new teacher in September for a school reward and a chance to be selected to attend a fall televised school committee meeting for a "Spotlight on Excellence!"
  
- When you see this symbol,  choose 1 or more activities from page 2.
- Some helpful materials to have around:
  - Math notebook/Journal from the school year for reference
  - A folder for these activities
  - Blank paper
  - Pencils
  - A deck of playing cards
  - Board Games

**Have a great summer vacation!**

Sincerely,

Chief Academic Officer  
Lowell Public Schools

# Summer Math Activity Log for \_\_\_\_\_

Activity log for student entering grade \_\_\_\_\_. Record the dates and descriptions of the math activities you complete. Bring this log back to your new teacher in August.








Activity #	Date Completed	Description of Activity
Example	7/2/20	The problem about surface area of a rectangular prism. <i>OR</i> choice activity, like Prodigy Game...
#1		
#2		
#3		
#4		
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		
#13		
#14		
#15		
#16		
#17		
#18		
#19		
#20		

Student's Name: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

## LPS Entering Grade 6 Summer Math

Complete at least 15 Math activities this summer. Each time, choose an activity from the boxes below – or from the back. Cross off a box when you do it and record the activity on your math log.

If you have eight coins in your pocket, what is the most money that you could have? The least?	Calculate: 15 X 15= 25 X 25= 35 X 35= 45 X 45=	As of today, what fraction of their games have the Red Sox won?	Choose from the back! 	List the next three terms in the sequence. {5, 16, 27, 38,...}
How many different combinations can you make with 3 types of ice cream, 2 types of sauce, and 2 types of toppings?	The sum of two numbers is 15 and their product is 54. What are the two numbers?	If you bought 3 CD's each costing \$12.99, and paid with a \$50 bill. What would your change be?	How many weeks are there in three years?  How many days are there in three years?	Choose from the back! 
If you spend \$25 a day, how long would it take to spend \$100,000?	Choose from the back! 	If you tripled the number of sides of a pentagon, how many sides would the new figure have?	A table and four identical chairs cost \$865. If the table cost \$589, how much does each chair cost?	$\frac{4}{7} + ? = \frac{6}{7}$  $\frac{1}{2} + ? = \frac{11}{12}$
How many prime numbers are there between 0 and 50?	Six nickels is what percent of a dollar?	Matt swims 5 laps each day. Greg swims 3 times as many laps each day. How many laps will Greg swim after 5 days?	Choose from the back! 	Ben has 8 square tiles. Each tile has a width of 9 inches. He lays the tiles down in a long row. What is the perimeter of the rectangle of tiles?
Choose from the back! 	How many more even numbered days are there in July than there are in February?	Find the missing numbers in the pattern: (2,4,8,16,__,__,256)	A number divided by seven has 42 as its quotient and five as its remainder. What is the number?	If four chocolates cost \$1.00, how many chocolates can you buy for \$5.00?
How many seconds are there in 1 hour? How many seconds are there in a day? A week?	Choose from the back! 	Change the following improper fractions to mixed numbers. $\frac{5}{4}$ , $\frac{11}{5}$ , $\frac{2}{10}$	What three even numbers add up to 54?	One side of an equilateral triangle is 9cm. What is the perimeter of the triangle?
A board 8ft. 4in. long is cut into four pieces of equal length. How long is each piece?	Order the following from least to greatest. $\frac{1}{2}$ , $\frac{2}{3}$ , $\frac{1}{4}$ , $\frac{2}{5}$	Choose from the back! 	How many edges does a cube have? How many faces does a cube have?	What do all of these numbers have in common? {17, 19, 41, 73, 79}

# Get Ready for Grade 6



## Choice Activities



### 1. Read a Cool Mathematics Book:

*The Phantom Tollbooth* by Norton Juster  
*Math Curse* by Jon Scieszka  
*Chasing Vermeer* by Blue Balliett  
*All of the Above* by Shelley Pearsall  
*The Man Who Counted: A Collection of Mathematical Adventures* by Malba Tahan

*The Number Devil* by Hans Magnus Enzensberger  
*Sir Cumference and the Dragon of Pi* by Cindy Neuschwander  
*Sir Cumference and the Sword in the Cone* by Cindy Neuschwander

Find Mathematics Books to Read Online at Epic!: <https://www.getepic.com/>  
Parents can sign up for free!

### 2. Use a cool mathematics website!

<http://illuminations.nctm.org>

<http://www.shodor.org/interactivate/activities>

[www.aaamath.com](http://www.aaamath.com)

<http://nlvm.usu.edu/en/nav/vlibrary.html>

<https://www.youcubed.org/students/>

[www.mathplayground.com](http://www.mathplayground.com)

[www.funbrain.com](http://www.funbrain.com)

<https://www.khanacademy.org/>

<http://www.visualfractions.com/>

<https://www.prodigygame.com/>

Play ST Math Games Online: <https://www.stmath.com/>

If your school already uses ST Math, you can login through your Clever account. If not, parents can sign their children up for free using the link above.

### 3. Exercise your brain with a strategy game. A great way to have fun with friends and family! Some good games are listed below. Maybe you've got some favorites of your own!

- Sequence
- Chess
- Dominoes
- Blokus
- Quirkle
- Set
- Settlers of Catan
- Ticket to Ride
- Mastermind
- Go

### 4. Take a free online course designed for learners of all levels of mathematics provided by Stanford University Professor of Mathematics Education Dr. Jo Boaler. Just follow the link below:

<https://lagunita.stanford.edu/courses/Education/EDUC115-S/Spring2014/about>