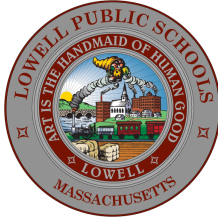


*Lowell Public Schools  
Curriculum, Instruction, and Assessment  
Henry J. Mroz Administration Office  
155 Merrimack Street  
Lowell, Massachusetts 01852*




## **Get Ready for School! Summer Mathematics Activities 2020 Entering Grade 7**

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.

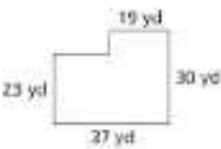


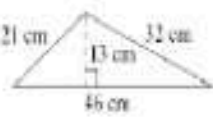




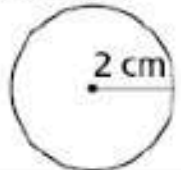

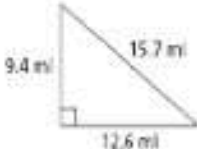
Activity #	Date Completed	Description of Activity
Example	7/2/20	The problem about surface area of a rectangular prism. <i>OR</i> choice activity, like Prodigy Game...
#1		
#2		
#3		
#4		
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		
#13		
#14		
#15		
#16		
#17		
#18		
#19		
#20		

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

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

## LPS Entering Grade 7 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.

<p>Find the area and perimeter:</p> 	<p>If you pull eight coins from your pocket, and none of them are pennies, what is the most money that you could have? The least?</p>	<p>The perimeter of a rectangle is 72m. The width of the rectangle is 16m. What is the area of the rectangle?</p>	<p>There are 80 total students in the 7<sup>th</sup> grade this year and the ratio of boys to girls is 3:7. How many boys are in 7<sup>th</sup> grade this year?</p>	<p>Choose from the back!</p> 
<p>Solve:</p> $\frac{1}{2} + \frac{1}{4} =$ $\frac{1}{4} + \frac{1}{3} + \frac{7}{12} =$	<p>Find the prime factorization of each of the following: A. 39 B. 210 C. 310</p>	<p>Choose from the back!</p> 	<p>GCF (17, 34) = GCF (20, 25) =</p>	<p>Divide:</p> $\frac{3}{4} \div \frac{1}{2} =$
<p>Find the area.</p> 	<p>Choose from the back!</p> 	<p>If the mean, median, and mode are all equal for the following set, what is the value of x? {3,4,5,8,x}</p>	<p>If three pies require 2 dozen apples, then four pies require _____ dozen apples.</p>	<p>Express the fraction <math>\frac{17}{20}</math> as a decimal and as a percent.</p>
<p>What is the volume <b>and</b> surface area of a rectangular prism with a length of 2cm, a width of 4cm, and a height of 3cm?</p>	<p>LCM (9, 15) = LCM (6, 18) =</p>	<p>Find the mean, median, mode, and range of the following set. {94, 96, 78, 90}</p>	<p>Choose from the back!</p> 	<p><math>\frac{3}{4} \times ? = \frac{2}{3}</math></p>
<p>Find each quotient.</p> $0.4 \div 0.02 =$ $0.09 \overline{)0.108}$	<p>In one year, what percent of your time is spent in school? Year=365 days School year=180 days</p>	<p>The mean of six test scores is 83. What is the sum of the six test scores?</p>	<p><math>\frac{3}{7} \times \frac{12}{1} =</math></p>	<p>Choose from the back!</p> 
<p>Choose from the back!</p> 	<p>Find the area to the nearest tenth:</p> 	<p>Multiply:</p> $2 \times 3$	<p>Simplify:</p> $2^3 + (8 - 5) \times 4 - 5^2$	<p>A jacket costs \$94.95. It is on sale for 30% off. Estimate the sale price.</p>
<p>As of today, what is the ratio of wins to total games the Red Sox have played?</p>	<p>Danielle is now as old as Kelly was eight years ago. Kelly is now 26. How old is Danielle?</p>	<p>Choose from the back!</p> 	<p>If 24 gallons of water are poured into an empty tank, then <math>\frac{3}{4}</math> of the tank is filled. How many gallons does a full tank hold?</p>	<p>Find the area:</p> 

# Get Ready for Grade 7



## 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

### 5. 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>