

## Washington Latin Public Charter School

### Summer Math Review Packet For Students Entering Grade 7

- 1) Complete the work in the packet and place your answers in the blank calendar that is attached. Staple extra sheets of paper to show all of your work. Be sure your work is labeled with the problem numbers, is neat and organized (not just “scratch paper” with random calculations scattered around). Your work, along with your answer key, will be collected and graded.
- 2) Please purchase a four function calculator with percentage (%) and square roots ( $\sqrt{\quad}$ ) calculator (with no memory function). There are several different models available at Staples, Target and Office Depot and run about \$6.00
- 3) Please purchase a 3-ring purple binder (1 or 1 1/2 inch will be fine) with extra lined paper and graph paper. You will need this in class daily. You will also need 5 dividers to separate your work.
- 4) Purchase pencils and erasers for class as pens are not permitted.

It is important for all students to review math concepts and processes during the summer. Intentional practice of math skills will help students reach mastery of required material and increase their ability to use facts and operations easily and accurately (fluency). There may also be skill areas or knowledge that students need to strengthen (reinforce) or build upon further through enrichment opportunities. Time spent working on mastery, reinforcement and enrichment will greatly benefit all students.

The 7<sup>th</sup> grade teachers have created this summer learning packet to help students continue to practice their math skills. Although these are setup to be used over two months, students can determine their own pacing. There is one problem per day for each of the weekdays during July and August, for a total of 36 items. We encourage students to put their answers on the blank calendars that accompany the packet.

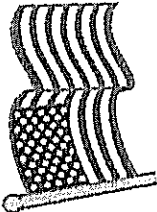
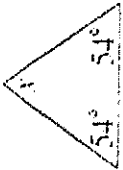
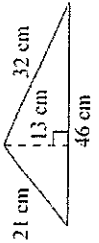
The problems in this packet were completed by

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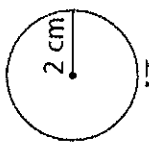
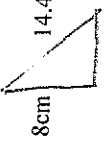
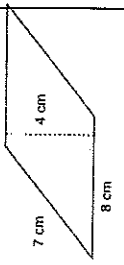
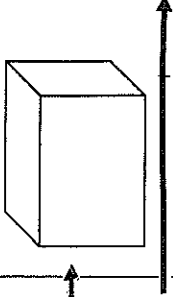
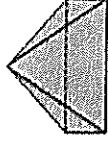
Student Name

# WLPCS Summer Math Calendar: July 2018

## Rising 7<sup>th</sup> Grade

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
1	2	3	4	5	6	7
	<p>Martha's Cookie Recipe</p> <ul style="list-style-type: none"> <li>1 cup shortening</li> <li>2 eggs</li> <li><math>\frac{1}{4}</math> cup white sugar</li> <li><math>\frac{1}{4}</math> cup brown sugar</li> <li><math>\frac{1}{2}</math> cups flour</li> <li>1 teaspoon vanilla</li> </ul>	<p><b>Activity 1</b></p> <p>Double all of the ingredients in Martha's cookie recipe in the previous box.</p>	<p>Independence Day</p> 	<p><b>Activity 2</b></p> <p>Solve:  <math>(6\frac{1}{8} + \frac{2}{3}) - 3\frac{11}{12} =</math>                      Hint: Find common denominators</p>	<p><b>Activity 3</b></p> <p>Fill in the missing number.  <math>56.7 + .89 - \underline{\quad} = 1.29</math>                      Write your answer in word form:</p>	
8	9	10	11	12	13	14
	<p><b>Activity 4</b></p> <p>Simplify:  <math>(6 \times 3) + 376 \div 8 - 5 + 4^3</math></p>	<p><b>Activity 5</b></p> <p>Find four fractions between <math>\frac{1}{10}</math> and <math>\frac{1}{8}</math>                      Hint: Find common denominators</p>	<p><b>Activity 6</b></p> <p>545 is halfway between 350 and what number?</p>	<p><b>Activity 7</b></p> <p>Give three examples of prime numbers greater than 50:</p>	<p><b>Activity 8</b></p> <p>A jacket costs \$75.00. It is on sale for 30% off. If you give the cashier \$60.00, calculate the amount of money she will return to you.</p>	
15	16	17	18	19	20	21
	<p><b>Activity 9</b></p> <p>GCF (17, 34) =                      GCF (45, 60) =                      Example: GCF (15, 35) = 5                      Hint: It is helpful to list the factors of each number.</p>	<p><b>Activity 10</b></p> <p>Find the prime factorization of each of the following:                      A. 84 B. 98 C. 310</p>	<p><b>Activity 11</b></p> <p>What is 25% of 80?                      What is 10% of 560?                      8 is ___ % of 12</p>	<p><b>Activity 12</b></p> <p>Express the fraction <math>\frac{7}{20}</math> and <math>\frac{5}{9}</math> as a decimal and as a percent.</p>	<p><b>Activity 13</b></p> <p>Find the mean, median, mode, and range of the following set.                      {94, 96, 78, 90}</p>	
22	23	24	25	26	27	28
	<p><b>Activity 14</b></p> <p>If three pies require 2 dozen apples, then four pies require ___ dozen apples.</p>	<p><b>Activity 15</b></p> <p>If the area of a rectangle equals <math>30\text{cm}^2</math> and the perimeter is equal to 26cm. Find the length and width of the rectangle.</p>	<p><b>Activity 16</b></p> <p>Multiply:  <math>3\frac{1}{6} \times 11\frac{3}{5} =</math></p>	<p><b>Activity 17</b></p> <p>Find the area of a square with a perimeter measuring 120 cm.</p>	<p><b>Activity 18</b></p> <p>Divide:  <math>3\frac{1}{4} \div \frac{1}{2} =</math></p>	
29	30	31				
	<p><b>Activity 19</b></p> <p>What is the value of angle <math>x</math>?</p> 	<p><b>Activity 20</b></p> <p>Find the area:</p> 				

# WLPCS Summer Math Calendar: August 2018

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
			1	2	3	4
			<b>Activity 1</b> The sum of two odd numbers is 28. The product of the two numbers is 115. What are the two numbers?	<b>Activity 2</b> Draw a pentagon. Draw a trapezoid.	<b>Activity 3</b> Multiply: $2\frac{3}{4} \times 6\frac{3}{4} =$	
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
	<b>Activity 4</b> In one summer, what percent of your days were spent doing this packet ( ___ days out of a total of ___ days = ___ %	<b>Activity 5</b> Find the area and the circumference of the circle to the nearest tenth: $\text{Area} = \pi r^2$ $C = \pi d$ 	<b>Activity 6</b> Find the area and perimeter of a rectangle with length measuring 14 cm and width measuring 5 more than twice the length	<b>Activity 7</b> Find the area and perimeter of this triangle: (hint: $A = bh \div 2$ ) 	<b>Activity 8</b> Place parentheses in the following equation to make it true. $6 + 6 \div 6 \times 6 - 6 = 0$	
<b>12</b>	<b>13</b>		<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
	<b>Activity 9</b> Find the area and perimeter of this parallelogram. Measure in centimeters: 	<b>Activity 10</b> Find the least common multiple (LCM) of 8 and 12?	<b>Activity 11</b> Evaluate this algebraic expression if $x = 5.6$ and $y = 9.3$ $3x + 4y =$	<b>Activity 12</b> Find each quotient. $9 \div \frac{1}{2} =$ $36 \div .2 =$	<b>Activity 13</b> Phil had 2 quarters, 1 dime and 3 pennies, Paul had 2 nickels. Phil gave 3 of his coins to Paul. Paul then had 1 cent more than Phil. What 3 coins did Phil give to Paul?	
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	
	<b>Activity 14</b> Debbie has 42 marbles and Chris has 24 marbles. How many marbles should Debbie give to Chris so that they will have the same number of marbles?	<b>Activity 15</b> Simplify: $(12 + 14) \times 8 \div (8^2 \div 4^2) =$	<b>Activity 20</b> Name these two solid figures and find the number of faces, edges and vertices: 	<b>Welcome Back to School !!</b> 		

# WLPCS Summer Math Calendar Answer Sheet: July 2018

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
1	2	3 Activity 1	4 Independence Day	5 Activity 2	6 Activity 3	7
8	9 Activity 4	10 Activity 5	11 Activity 6	12 Activity 7	13 Activity 8	14
15	16 Activity 9	17 Activity 10	18 Activity 11	19 Activity 12	20 Activity 13	21
22	23 Activity 14	24 Activity 15	25 Activity 16	26 Activity 17	27 Activity 18	28
29	30 Activity 19	31 Activity 20				

# WLPCS Summer Math Calendar: August 2018

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
			1 Activity 1	2 Activity 2	3 Activity 3	4
5	6 Activity 4	7 Activity 5	8 Activity 6	9 Activity 7	10 Activity 8	11
12	13 Activity 9	14 Activity 10	15 Activity 11	16 Activity 12	17 Activity 13	18
19	20 Activity 14	21 Activity 15	22 Activity 16	23 Welcome Back to School !!	24	

Below is a list of websites to keep your mind fresh mathematically over the summer. *Try to visit them daily or weekly so that you are ready to go at the end of August.*

**Khan Academy**

**[www.khanacademy.org/](http://www.khanacademy.org/)**

With a library of over 3000 videos covering everything from arithmetic to physics, finance, and history and hundreds of skills to practice, we're on a mission to help you learn what you want, when you want, at your own place.

**Kuta Software**

**[www.kutasoftware.com/](http://www.kutasoftware.com/)**

Software for math teachers that creates exactly the worksheets you need in a matter of minutes. Try for free. Available for Pre-Algebra, Algebra 1, Geometry, and Algebra 2.

**AAA Math & Purple Math**

**[www.aaamath.com/](http://www.aaamath.com/) & [www.purplemath.com/](http://www.purplemath.com/)**

These two sites feature comprehensive sets of interactive mathematics lessons. Practice is available on most topics, which allows for thorough mastery of the concepts.

**Cool Math 4 Kids**

**[www.coolmath.com/](http://www.coolmath.com/)**

This fully interactive site and allows the user to sharpen basic math skills, play games and explore new math concepts. And it's not just fun and games! There are lessons, printable materials, and a math dictionary that extend into high school material.

**Math is Fun**

**[www.mathsisfun.com/](http://www.mathsisfun.com/)**

Lessons, animations and explanations on just about any middle school and high school math topic you could need!

**Big Ideas Math**

**[www.bigideasmath.com/](http://www.bigideasmath.com/)**

Look familiar? This is the companion site for our textbook! Simply choose your book and open it up. Video clips and interactive practice are also included.

**FunBrain**

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

FunBrain is the #1 site for online educational games for kids of all ages. (math, grammar, science, spelling, and history)

**Math Playground - Online Math Games that Give your Brain a Workout**

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

Action packed site with fun and challenging online math games. Play with numbers and give your brain a workout.

**Sundog**

**[www.sundog.com/](http://www.sundog.com/)**

Get in on the competition! Students in Westfield have already racked up 1,000's of correct answers!