

Washington Latin Public Charter School

Summer Math Review Packet For Students Entering Grade 8

- 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) Purchase a TI-34 Multiview calculator.
- 3) Purchase a 3-ring purple binder (1 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 and homework 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.

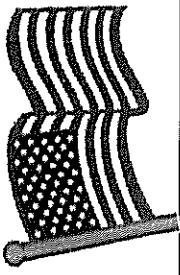
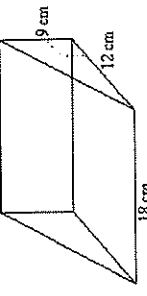
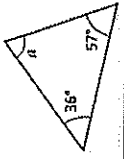
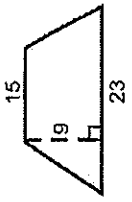
The 8th grade teachers have created this summer learning packet to help students continue to practice their math skills. Although these are setup to be used over two months, students can determine their own pacing. There is one problem per day for each of the weekdays during July and August, for a total 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

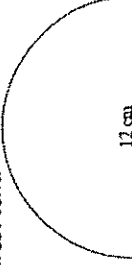
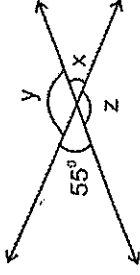
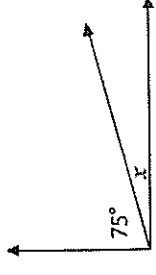
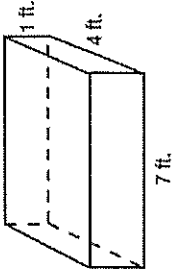
Student Name

WLPCS Summer Math Calendar: July 2018

Rising 8th Grade

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
1	2	3	4	5	6	7
	Activity 1 Twice a number (n) minus nine is ninety-five. Find the number (n).	Activity 2 Solve: $45 \div (-9) =$ $(-105) \div (-15) =$	Independence Day 	Activity 3 Make a list of all the prime numbers between 50 and 75.	Activity 4 Simplify: $(2 \times 9) + 400 \div 5 - 5 + 4^3$	
8	9	10	11	12	13	14
	Activity 5 Find four fractions between $\frac{8}{10}$ and $\frac{5}{4}$	Activity 6 Which carton of orange juice has a better price? a. 15oz for \$1.79 b. 12oz for \$1.49	Activity 7 The pages of a book are numbered consecutively from 1 to 275. How many times is the digit 8 used in numbering the pages?	Activity 8 Solve for x: $4x - 6 > -10$	Activity 9 $GCF(18, 36) =$ $GCF(48, 60) =$ Example: $GCF(15, 35) = 5$	
15	16	17	18	19	20	21
	Activity 10 Calculate the volume: 	Activity 11 What is 75% of 80? What is 10% of 660? 12 is ___ % of 15.	Activity 12 Express the fractions $\frac{3}{5}$ and $\frac{9}{5}$ as a decimal and as a percent.	Activity 13 Evaluate the expression when $x = 5$, $y = -3$, and $z = -2$. $\frac{y + z}{x}$	Activity 14 Solve for w: $3w + 2 = 20$	
22	23	24	25	26	27	28
	Activity 15 If the area of a rectangle equals 32 cm^2 and the width is 2 times the length. Find the width and length of the rectangle.	Activity 16 Evaluate: $5.2 \times 6.9 =$ $7.2 \times 2.4 =$ $5.5 - 8.01 =$	Activity 17 Find the area of a square with a perimeter measuring 160 cm.	Activity 18 Divide: $\frac{5}{6} \div \frac{2}{4} =$	Activity 19 What is the value of angle a ? 	
29	30	31				
	Activity 20 Find the area: 	Activity 21 Order the following from least to greatest: $\frac{3}{7}$, 43%, 0.4, 0.04				

WLPCS Summer Math Calendar: August 2018

Sun.	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
			1	2	3	4
		Area = πr^2 $C = \pi d$	<p>Activity 1</p> <p>Find the <u>area</u> and the <u>circumference</u> to the <u>nearest tenth</u>:</p> 	<p>Activity 2</p> <p>Find the values of x, y, and z.</p> 	<p>Activity 3</p> <p>Write the rational numbers as decimals.</p> $\frac{7}{8} \qquad \frac{-17}{40}$	
5	6	7	8	9	10	11
	<p>Activity 4</p> <p>Write an equation to represent the statement: There are 5 people in Johnny's rock band. They made x dollars playing at a dance hall. After dividing the money 5 ways, each person got \$67.</p>	<p>Activity 5</p> <p>Order the numbers from least to greatest:</p> $3\frac{1}{3}, -\frac{1}{2}, \sqrt{16}, -\sqrt{4}$	<p>Activity 6</p> <p>Evaluate:</p> $- 3 \cdot -3.4 - 1.5^2$	<p>Activity 7</p> <p>Find the difference:</p> $(5x + 6) - (-x + 6)$	<p>Activity 8</p> <p>Find the mean score for the following group of math quizzes: 83, 84, 91, 71, 99, 77, 88, 66, 95, 79, 82</p>	
12	13	14	15	16	17	18
	<p>Activity 9</p> <p>Solve for a:</p> $230 \times (a + 2)$	<p>Activity 10</p> <p>Solve the inequalities:</p> $-15 < 2.5q$ $\frac{x}{-3} > -4$	<p>Activity 11</p> <p>Write an inequality to represent the statement: The sum of a number and 6 is at least 15.</p>	<p>Activity 12</p> <p>Write the decimals as fractions.</p> 0.45 6.012 -2.32	<p>Activity 13</p> <p>Find the value of x.</p> 	
19	20	21	22	23	24	
	<p>Activity 14</p> <p>Calculate the surface area.</p> 	<p>Activity 15</p> <p>A box turtle hibernates in sand at $-1\frac{5}{8}$ feet. A spotted turtle hibernates at $-1\frac{16}{25}$ feet. Which turtle is deeper?</p>	<p>Activity 16</p> <p>Simplify:</p> $2 + (-3) + [-4(-2+1)] =$ $(-2) + (-3)^2 =$	<p>Welcome Back to School !!</p>		

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/

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/

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/ & 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/

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/

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

Big Ideas Math

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/

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/

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

Sumdog

www.sumdog.com/

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