

Grade 5 → 6 Summer Homework Math Package

It is important that you keep practicing your mathematical Knowledge over the summer to be ready for 6th grade. In this Package you will find a calendar of activities for the month of July and August.

What should you do?

- Take a new notebook for every-day practice. For each day you will need 2 pages;
- Start each day with vocabulary words: copy each word from the given day-list, find and write the meaning of each word in your notebook on the front page (pages 1,3,5, . . . and so on):

 $\underline{www.a \textbf{mathsdiction} ary forkids.com/dictionary.html}$

- Use the internet to find the meaning of each word you do not know;
- Solve the problem of the day and write the solution with full explanation on the back page (pages 2,4,6,... and so on);
- Have the date of the entry. Have a clear and complete answer. Be neat and organize.

Do not forget to bring your notebook to school on September 5, 2017 - the first school day.

Have a Great Summer!!

July 5 → 6 Monday	Tuesday	Wednesday	Thursday	Variable Expression Equation Properties of equality Friday 30	Decimal Negative power of ten Saturday 1	Incoming 6 th Grade
Scientific notation	Divisibility Divisibility rules	Prime and composite numbers	Prime factorization GCF LCM	Equivalent fractions LCD Simplest form	like denominators unlike denominators	Summer Home Work VOCABULARY
3	4	5	6	7	8	
Mixed numbers Improper fraction	Reciprocal Multiplicative inverse	Ratio Equal ratios Rate Unit rate	Proportion Cross product	Scale drawing Scale	Percent	
10	11	12	13	14	15	
Convert percent to fraction and decimal Convert fraction and decimal to percent 17	Percent of a number	Sales tax Total cost	Discount Sale price	Increase Decrease	Principal Interest Simple interest	
Commission Rate of commission	Opposites Integers Absolute value	Rational numbers	Exponential form base exponent expanded form	Round Estimate Clustering	Order of operations Properties of operations	

July 5 → 6 Monday	Tuesday	Wednesday	Thursday	Decide if the solution is correct. 12n - 5 = 4n + 35 n = 4 Friday 30	In the number 44.444 which digit has 1/10 the value of the 4 in the hundredth place? Saturday 1	Incoming 6 th Grade
Write 0.00000678 in scientific notation.	I am a 3-digit number less than 300. I am divisible by 2 and 5, but not 3. The sum of my digits is 7. What number am I? 4	The number 59 and I are the only two prime numbers between 50 and 60.Who am I?	I am the least common multiple of two numbers whose sum is 20. One number is 4 greater than the other. What number am I? 6	Use two prime numbers to create a fraction that is equivalent to $\frac{21}{49}$.	One-half of a number added to one-fourth of 96 is 30. What is the number?	Summer Home Work for FUN
$4\frac{5}{12} - 2\frac{9}{16}$	$\frac{2 - \frac{3}{4}}{6\frac{1}{4} + \frac{1}{2}}$	Which is the better buy: One gallon of milk for \$1.99, or $\frac{1}{2}$ gallon of milk for \$0.98?	Ruth's batting average was 400 after 60 bats. After 20 more bats she lifted her average to 500. How many hits she get in those 20 bats?	Tina wants to enlarge this old photograph of her parents for their anniversary. If the scale is 1 inch = 2,5 inches, what will the dimensions of the final photo be?	I am a three-place decimal that is equivalent to the difference between 1 and $\frac{3}{8}$. What decimal am I?	
Write $\frac{2}{5}$ % as a fraction and decimal	What is 20% of $\frac{2}{5}$ of 15	A rug cost \$296 plus $6\frac{1}{2}$ % sales tax. Find the sales tax and the total cost.	After a discount of 15%, the price of a shirt is \$51. What was the original price of the shirt?	After 2 month on a diet, John's weight dropped from 168 to 147 pounds. By what percent did John's weight drop? 21	Find the amount of interest and the total amount. \$250 for 2 years at simple interest rate of 7.5% per year. 22	
Amount sold for \$4,500. Rate of commissions 2.5% Commission?	Compare -6 and -6	Order from greatest to least -2.4, $\frac{5}{8}$, $-\frac{5}{8}$, 0	Write 78,045 in expanded form using exponents	The sum of my digits is 11. When rounded to the nearest hundred, I am 500. Rounding to the nearest ten makes me 530. What number am I? 28	Evaluate the expression 2{ 5[12 + 5(500 - 100) + 99]}	

August 5 → 6 Average		Permutations Combinations	Probability	Operations with integers	Equation	expression	Incoming 6 th Grade
_	1	Tuesday 1	Wednesday 2	Thursday 3	Friday 4	Saturday 5	
Exponent Base Power		Order of operation	Coordinate plane Ordered pair Quadrant Origin	Relation Function	t-table linear equation	Angle Acute angle Obtuse angle Right angle Straight angle	Summer Home Work VOCABULARY
	7	8	9	10	11	12	
Complementary angles Supplementary angles		Reflex angle	Triangle Classify the triangles by sides and angles	Sum of all angles of a triangle	Perimeter Square Rectangle	Area Rectangle Perimeter	
	14	15	16	17	18	19	
trapezoid parallelogram rhombus square rectangle	21	Similar triangles Corresponding sides	Perimeter Area	Parallelogram Area Perimeter	Surface area Area of a square	Circle Radius diameter Circumference	
Area of a circle	28	Volume Rectangular prism Base Height	Mean Median Mode Range	24	2.5	20	

	Marcy's average	Eight children line	Find the probability	Solve	Evaluate	
August	score on four tests	up at the water	of getting a sum of	x + (-21) = -59	x - (-2)	• •
	was 84. Three of	fountain. Find the	5 or a sum of 7		for x = 3	Incoming
5 → 6	scores were 84, 88,	number of	when two cubes			6 th Grade
$3^2 + (-5)^2 - (-1)^3$	and 80. What was	possible	are tossed.			o Grade
	the fourth score?	arrangements.		Full A	Catamalan	
Monday 31	Tuesday 1	Wednesday 2	Thursday 3	Friday 4	Saturday 5	
Compare	$-5^2 + (-5)^2$	Draw a	Tell whether	Make a T-table.	From midnight to	
	$ 4^2-2^5 -(-3)$	coordinate plane.	relation is a	Then graph each	noon, the hands of	Summer
-7^2 and $(-7)^2$		Graph and label	function	equation.	a clock form	
		the points given.	a 1 6 9 1	Y = -3	straight angles	Home Work
		(0,5), (-3,1), (-1,0)	b 3 -1 -1 3	Y = -x -3	several times. How	for FUN
		(-4, -5)		X = -4	many times?	
7	8	9	10	11	12	
Find the	Draw a 255° angle.	Is it possible to	Find the third angle	Find the area of	What is the	
complement and		make an	of a triangle, given	the square which	greatest area of a	
supplement of 56°		equilateral obtuse	that the first two	has the same	rectangle with a	
angle.		triangle? Explain.	angles are 55° and	perimeter as a	perimeter of 50?	
			70°. What kind of	rectangle 12 by 2.		
			triangle is it?			
14	15	16	17	18	19	
True or false.				Find the surface	If circumference of	
All trapezoids are	12 \ 13 6 \ y	105 cm	/15cm	area of a cube with	a Ferris wheel is	
parallelograms.			/ 10 cm /	edge of 3.2 meters.	134 meters, what	
Every square is a		90 cm	20		is its diameter?	
rhombus.	5	Find the perimeter	20cm		Use 3.14 for π .	
Every rectangle is a	x =	and the area.	Area = ?			
square.	y =		Perimeter = ?	35	36	
	22	23	24	25	26	
What is the area of a	An aquarium has a rectangular base 36 in	Find the mean,				
circular garden with	by 12 in. its volume is	median, mode and				
a diameter of 4 feet?	6912 in ³ . Find its	range of a data set.				
	height.	1.8, 1.95, 1.85, 1.8, 1.6				
		1.0				
28	29	30				
]				