



Optional Summer Math Homework package

Grade 4 → 5

It is important that you keep practicing your mathematical Knowledge over the summer to be ready for **5th 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);
- Use the internet to find the meaning of each word you do not know:

https://dynamiclearningmaps.org/sites/default/files/documents/ERP/dlm_math_glossary.pdf

- 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 3, 2024 - the first school day.

Have a Great Summer!!

<div style="background-color: black; color: white; padding: 5px; font-weight: bold; font-size: 24px;">July</div> <p style="text-align: center; font-weight: bold;">Monday</p>	<p style="text-align: center; font-weight: bold;">Tuesday</p>	<p style="text-align: center; font-weight: bold;">Wednesday</p>	<p style="text-align: center; font-weight: bold;">Thursday</p>	<p style="text-align: center; font-weight: bold;">Friday</p>	<p style="text-align: center; font-weight: bold;">Saturday</p>	<p style="text-align: center; font-weight: bold;">Incoming 5th Grade</p>
<p>Variables Algebraic Expression Evaluate</p>	<p>Equations Solution</p>	<p>Division Pattern Factors</p>	<p>Divisibility rules Prime numbers Composite numbers</p>	<p>Multiples Unit fractions</p>	<p>Order of operations</p>	<p style="text-align: center; font-weight: bold;">Summer Home Work VOCABULARY</p>
<p>Dividing by 2 digit divisors Dividing larger Numbers</p>	<p>Like denominators And unlike denominators</p>	<p>Mode Range</p>	<p>Point Line Curve Line segment Ray Plane</p>	<p>Parallel lines Intersecting lines Perpendicular lines</p>	<p>Angles, types of angles</p>	
<p>Polygon Regular polygon Names for 3-,4-,5-, 6-,7-,8-,9-, and 10-sided polygons</p>	<p>Classifying Triangles by sides and by angles</p>	<p>Quadrilaterals Parallelogram Rectangle Rhombus</p>	<p>Square Trapezoid Concave, convex</p>	<p>Fractions Proper and Improper fractions Mixed numbers</p>	<p>Equivalent Fractions Decimals</p>	
<p>Factor GCF LCM</p>	<p>Comparing whole numbers; Comparing fractions Comparing mixed numbers</p>	<p>Adding Subtracting Fractions and Mixed numbers</p>	<p>Place Value Comparing whole Numbers Standard form Expanded form Word form</p>	<p>Multiplying fractions Multiplying mixed numbers</p>	<p>Rounding estimating Simplest form</p>	

July

Incoming 5th Grade

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Evaluate each expression for $n=6$
 $n \times 8.4$; $11.2 - n$

Solve each equation
 $37 - m = 15$
 $25.5b = 25.5$

Write the next Number in this pattern
 $37, 49, 61, 73, \dots$

Find all the factors Of 60 and of 85
 Find their greatest common factor (GCF)

Is 1628 divisible By 2? By 3? By 4? By 5? By 6? By 9? By 10?

Use the order of operations
 $135 - 3 - (4 \times 12) + 16$
 $3/4 \times 6 - (6 - 5/7) = ?$
 $(3 \frac{1}{4} - 4/9) \times 8 = ?$

Summer Home Work for FUN

Find each quotient
 $7,368 \div 72$
 $36,144 \div 48$
 $0.054 \div 0.09$
 $0.54 \div 0.0009$

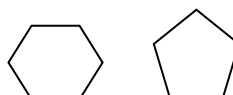
$3/4 \times 6 - (6 - 5/7) = ?$
 $(3 \frac{1}{4} - 4/9) \times 8 = ?$

Find the range and the mode
 a. 4, 0.9, 5, 0.9, 1
 b. 61, 59, 58, 58, 61

Draw and label Two lines segments
 Two parallel rays
 Two perpendicular lines


Draw and label Two intersecting, But not perpendicular, Line segments

Draw and label 4 rays with the common endpoint


 How are the figures alike? How are they different?

The measures of two angles of a triangle are 126° , 24° . Find the measure of the third angle.

In quadrilateral three angles are 95° , 140° , 25° . Find the fourth angle.

Classify each quadrilateral

 Find area and perimeter of a 0.06 cm long square

Write fractions as mixed numbers
 $\frac{51}{10}$; $\frac{32}{9}$; $\frac{601}{20}$; $\frac{84}{12}$.
 Write mixed numbers as fractions
 $5 \frac{1}{3}$ $40 \frac{1}{5}$ $21 \frac{2}{3}$ $36 \frac{1}{2}$

Find sum of 3 and the quotient of $\frac{4}{5}$ and $\frac{13}{20}$
 Estimate $12 \frac{1}{2} - 6 \frac{1}{8}$
 Estimate $12 \frac{1}{2} \times 6 \frac{1}{8}$

What is the GCF Of 18 and 63?
 What is the LCM Of 9 and 4?

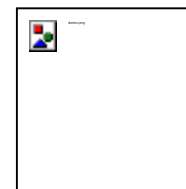
Simplify each $\frac{12}{30}$; $\frac{14}{42}$; $\frac{12}{48}$; $\frac{24}{60}$.
 Compare fractions
 $\frac{5}{6}$ $\frac{5}{8}$; $\frac{1}{5}$ $\frac{1}{3}$
 Order $\frac{1}{5}$, $\frac{5}{8}$, and $\frac{1}{3}$

Find each sum Or difference
 $\frac{9}{10} + \frac{3}{4}$; $11 - 2 \frac{5}{6}$
 $12 \frac{3}{5} + 3 \frac{3}{8}$;
 $3 \frac{1}{6} - 2 \frac{1}{5}$

Write the value of the digit 6 in 87,642; in 8.567.
 Write the number in Expanded form:
 7,450,693,000;
 45.213


Find each product
 $\frac{2}{3} \times \frac{7}{8}$ $\frac{8}{9} \times 27$
 $2 \frac{8}{9} \times 1 \frac{8}{9}$


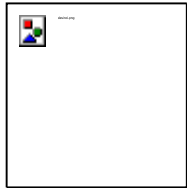
Round 4,362,045 to the Nearest hundred thousand
 Compare 737.4 and 72.56
 737.4 and 725.6



Big Apple Academy

Mathematics Department

August	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Incoming 5th Grade
	Compatible numbers Compensation Congruent shapes	Width and length Area Units of area Area of rectangles Area of squares	Perimeter Perimeter of rectangles Perimeter of squares	Properties of operations: commutative; Identity; zero; associative	Time Units of time Elapsed time Number line	Temperature and Units of Temperature; Capacity and units of capacity	Summer Home Work VOCABULARY
Solid figures Surface, Face, Vertex, Edge Prisms and pyramids	Perimeter of irregular figures Adding and subtracting on a number line	Volume; Units of volume; 2 Formulas for volume of a prism	Estimating capacity Customary Units of Capacity Metric Units of Capacity	Estimating weight Customary Units of Weight Metric Units of mass	Estimating length Customary units of length Metric units of length		
Coordinate Plane; Coordinates; Ordered pair; Origin; Y-axis; X-axis	Measuring cup Protractor Measuring tape Yardstick Weighing scale Thermometer	Degree Reflex angle Quarter-hour Coins and bills	Inverse operations Picture graph Key Tally chart	Venn diagram Distributive property Inequality	Frequency table Number chart Number expression Algebraic expression		
Addend, sum Dividend, divisor Factors, product 3 forms of a number	Symmetry flip slide turn rotation reflection translation	Exponent Base and power Square an cube of a number	Drawing and Measuring angles: tools, ways to check	Line plot Least ; at least At most; most common; mode; range	Bar graph Title Scale Interval Bar		

<div style="background-color: black; color: white; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">August</div> <div style="text-align: center; font-weight: bold;">Monday</div>	<div style="text-align: center; font-weight: bold;">Tuesday</div>	<div style="text-align: center; font-weight: bold;">Wednesday</div>	<div style="text-align: center; font-weight: bold;">Thursday</div>	<div style="text-align: center; font-weight: bold;">Friday</div>	<div style="text-align: center; font-weight: bold;">Saturday</div>	<div style="text-align: center; font-weight: bold;">Incoming 5th Grade</div>
<p>How many $\frac{1}{4}$s in $\frac{3}{4}$? $5\frac{1}{7} \div (2\frac{2}{7} \times 7) = ?$ $7\text{mi and } 7 \text{ yd} = ?\text{yd}$</p>	<p>Find the area of a rectangle with sides 3.4m and 65m Find the area of a 2.4 cm long square.</p>	<p>Find the perimeter Of rectangle $L = 6.3 \text{ cm}$ $W = 14.2 \text{ cm}$</p>	<p>What is a four-sided polygon with all equal sides is called? Draw 2 congruent rhombuses</p>	<p>Find each elapsed time a. from 8 : 16 am to 12: 35 pm. b. from 4 : 22 am to 10 : 50 am</p>	<p>Find each change In temperature $97^\circ \text{ F to } 79^\circ \text{ F}$ $17^\circ \text{ F to } -3^\circ \text{ F}$ Compare 4.8×0.4 with 4.8; with 0.</p>	<p>Summer Home Work for FUN</p>
<p>How are a cylinder and a cone alike? A square prism has How many faces, Vertices, edges?</p>	<div style="text-align: center;">  </div> <p>Find the perimeter</p>	<p>Find the volume Of 2 rectangular Prisms: 1st with $l=14\text{m}$, $w=7.2\text{m}$, and $h=3\text{m}$, and 2nd with a base of 0.8 sq m and $h=6\text{m}$</p>	<p>$17 \text{ qt} = ? \text{ pt}$ $17 \text{ pt} = ? \text{ qt}$ $6\text{gal } 2\text{qt} = \underline{\hspace{1cm}} \text{ qt}$ $6\text{c } 2\text{fl oz} - 5\text{fl oz} = ?$ $700\text{L} = \underline{\hspace{1cm}} \text{ mL}$</p>	<p>$7.2 \text{ squared} = ?$ $30 \text{ kg } 6 \text{ g} = ? \text{ g}$ $362 \text{ mg} = ? \text{ g}$ $2 \text{ kg } 3 \text{ mg} = ? \text{ g}$ $9\text{lb } 8\text{oz} + 7\text{lb } 9\text{oz} = ?$</p>	<p>Complete $38 \text{ in} = ? \text{ ft.}$ $8 \text{ ft } 5 \text{ in} = ? \text{ in}$ $9 \text{ yd } 1 \text{ ft} = ? \text{ ft.}$ $20 \text{ m} = ? \text{ cm}$ $20 \text{ m} = ? \text{ hm}$</p>	
<p>Which is the better Buy, $\\$2.96$ for 8 pears Or $\\$1.70$ for 5 pears?</p>	<p>Is it possible to draw an equilateral obtuse triangle? Explain</p>	<p>What is the greatest area of a rectangle with a perimeter of 50?</p>	<p>Write what inverse operation you would use to find n for $n - 6$; for $92 + n$; for $n \times 18$</p>	<p>Solve each equation $p + 232 = 750$ $a - 7.3 = 12.6$ $28 \div s = 56$</p>	<p>Find triple m if $320 = 16 \times m$ Find double n if $70 = 16 + n$</p>	
<p>The number 59 and p are the only two prime numbers between 50 and 60. What is p?</p>	<p>One-half of a number added to one-fourth of 96 is 30. What is the number?</p>	<p>In the number 44.444 which digit has $\frac{1}{10}$ the value of the 4 in the hundredth place?</p>	<p>Estimate $1.8 + 1.95$ 31.85×0.86 $28 \div 7.503$</p>	<p>Use the coordinate plane to graph Each set of points $(0, -3)$ $(+5, -1)$ $(+6, +2)$ $(-1, +7)$ $(+6, +6)$ $(+7, 0)$</p>	<p>Is $\frac{10}{16} = \frac{15}{20}$? Explain. Find $(456 - 4.34) \times 4.8$</p>	<div style="text-align: center;">  </div>