Big Apple Academy **2025** **Mathematics Department**

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

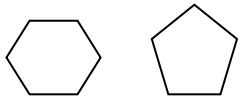
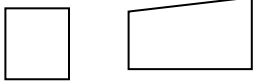
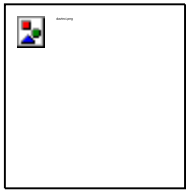
- Solve the problem of the day and write the solution with full explanation on the back page (pages 2,4,6,. . . and so on);
- Have the date of the entry. Have a clear and complete answer. Be neat and organize.

Do not forget to bring your notebook to school on September 2, 2025 - the first school day.

Have a Great Summer!!

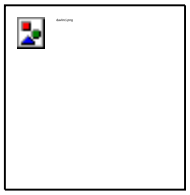
Big Apple Academy 4 grade → 5 grade Mathematics Department

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

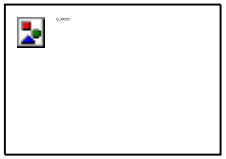
July				Find 75,397.5 + 897.04 6.7 – 3.85	Find each product 737 x 54 409 x 36	**Incoming 5th Grade**
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**	
Evaluate each expression for n=6 n x 8.4; 11.2 – n	Solve each equation 37 – m = 15 25.5b = 25.5	Write the next Number in this pattern 37,49,61,73, …	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 x 12)+16 3/4 x 6 – (6-5/7)=? (3 ¼ - 4/9) x 8 =?	**Summer Home Work for FUN**
Find each quotient 7,368 ÷ 72 36,144 ÷ 48 0.054 ÷ 0.09 0.54 ÷ 0.0009	3/4 x 6 – (6-5/7)=? (3 ¼ - 4/9) x 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 5⅓ 40⅕ 21⅔ 36 ½	Find sum of 3 and the quotient of $\frac{4}{5}$ and $\frac{13}{20}$ Estimate 12⅖ - 6⅛ Estimate 12⅖ x 6⅛	
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	

Big Apple Academy **Mathematics Department**

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