Big Apple Academy **202**5 **Mathematics Department**

Summer Math Homework Package **Grade 3→ 4**

It is important that you keep practicing your mathematical Knowledge over the summer to be ready for **4th grade**. In this Package

you will find a calendar of activities for the month of July and August.

What should you do?

- Take a 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 or just give examples instead. You can also draw pictures for illustrations.
- 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 next page
- Have the date of the entry. Have a clear and complete answer. Be neat and organized.

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

  Have a Great Summer!!

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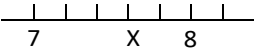| July						Incoming 4th Grade
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**	
Difference Sum Addends Fact Families	Variable Numerical and Algebraic Expressions	Equation Rounding Estimation Overestimate Underestimate	Product Factors Multiple	Properties of Multiplication Distributive Property	Dividend Divisor Quotient Remainder	**Summer Home Work** VOCABULARY
Units of Time Properties of addition	Survey Data Tally Marks	Pictograph Line Plot Bar Graph	Place value Compatible numbers	Diagonal convex concave	Parallel perpendicular intersecting	
Divisibility Rules 2,5,and 10	Divisibility Rules 3,9	Trapezoid Square Rhombus	Solid Figures Face Edge	Polygon Side Vertex	Point Line Line Segment Ray	
Angle Type of angles	Pairs of lines Name of Polygons	Type of triangles	Standard form of the number Expanded form Word form Period	Type of quadrilaterals	Types of polygons (pentagon, ...)	

Big Apple Academy   Mathematics Department

July Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Write the rule for each pattern and write the next number 6, 12, 18, 24, _ 7,15,12, 20,17,_	Dan collected 435 stamps. He gave away 187 of them. How many stamps did he have left?	1. $7 + r = 28$ r=? 2. $608 - 329$ 3. 567×24 4. $2917 / 4$	21 games were bought for Children's Hospital. Each game cost $6. How much money was spent in all?	Maria bought a shirt for $19.50 and pants for $18.95. He got $1.55 change. How much money did she have?	factors of 34 are_____ First 5 multiples of 34 are ___ $47-k=30$ $9842 / 6$ $8 \times 6 + 24/8$
Write the rule for each pattern and write the next number 6,13,27,55 5,13,29,61 10,17,24,31	How many: Feet in 3 yards Quarts in 4 gallons Ounces in 7 pounds	$612/5$ 597×77 345×253 estimate each result to check	Mira has 18 rose bushes in her garden. Each spring, each bush has about 11 rose blooms. About how many rose blooms will Mira have?	Fred is collecting shells on the beach. If he finds a shell every three steps that he takes, how many shells will he find after 30 steps?	Marie is going across the monkey bars at school. There are 16 bars on the monkey bars. If she starts with the first bar and skip two bars each time she swings, how many bars will she touch in all?
Jo and Jill are baking cookies. Each batch will make 18 cookies. They want to make enough so that each student can have 2. If there are 25 people, how many batches of cookies do they need to make?	Bryan has six dogs that each eats one-half cup of food each morning. If he has 20 cups of food, how many days can he feed all his dogs?	Skip was counting his change and found that it totaled $6.73. He had 18 pennies, 14 quarters, and 2 half-dollars, and 5 dimes. How many nickels did he have?	Sam has 20 coins, some of them are dimes and others are nickels. If the total is $1.55, how many dimes are there?	Every three steps, Norma and Kris would each throw one stone. If they each walked 90 steps, how many rocks were thrown into the river by both Norma and Kris?	Betsy has 2 piles of clothes in her bedroom. There are 15 pairs of pants, 12 shirts. If the washing machine will hold only 4 shirts and 3 pairs of pants at one time, how many loads of laundry will Betsy have to do to clean all of her clothes?
What shape has four sides and one pair of opposite sides that are parallel? How many edges does a cube have? How many equal sides does a scalene triangle have?	Marcia is 2 years older than Rosa. Rosa is 3 years older than Lisa. Lisa is 2 years younger than her 11-year-old brother. How old is Marcia?	Ben played basketball for 3 months and made 73 baskets. In February he made 20 baskets and twice that number in March. How many did he make in January?	1. Simplify: $22 - 3 + (8 - 1) \times 4 =$ 2. Find: $338 \times 46 =$	$6{,}327/9$ 256×48 $67 - 8.56$ 3.19×2.8	

Big Apple Academy   **Mathematics Department**

August 3 → 4						**Incoming 4th Grade**
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**	**Summer Home Work** **VOCABULARY**
Line of Symmetry Perimeter Area	Area of rectangles Congruent shapes Rectangular Prism	Fraction Numerator Denominator	Equivalent Fractions Rules to compare fractions	Prime and Composite Numbers Common Factors Simplest form of fractions	Mixed Number Improper Fraction Pictographs	
Customary Units of Length Inch Feet Yard Mile	Customary Units of Capacity Cup Pint Quart Gallon	Customary Units of Weight Ounce Pound	Decimals Place Value Tenths Hundredths	Compare Decimals Equivalent Decimals	Metric Units of Length	
Metric Units Of Capacity	Mass and Metric Units	Cube cone Sphere cylinder	Line plot Bar graph Scale Interval	Money Names of Coins	Order of Operations	
Problem-Solving Strategies	Temperature: units and important numbers	Regrouping	Even Numbers Odd Numbers Counting Numbers Whole Numbers	Change Unit Fractions	MeasuringTools	

Big Apple Academy   Mathematics Department

August 3 → 4						**Incoming 4th Grade**
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**	
		A tractor weighs 5 tons. How many pounds is this? Write in order from shortest to longest: 2000 dm, 2 m, 2000 cm, 2 km.	Mike bought 2 pounds of chocolate. His coworkers ate 21 ounces of it. How much chocolate does Mike have left?	Two thirds of the dogs were brown and one sixths was black. Were there more brown or black dogs? Write as a mixed number: 125 / 4	Compare 7tenths and 2fifths Compare 8 sixteenths and 1eigths Compare 9tenths and 1half	**Summer Home Work for FUN**
Mandy served salads. There were 5 tomato slices on each. How many salads did she Serve with 120slices?	Luis sold 10 one-gal cartons of milk and 36 one-qt cartons of milk. Did he sell more milk in gallon or quart cartons?	A plane leaves Miami at 12:09 p.m. and lands in NY at 2:12 p.m. The flight was supposed to take 1hour52min. Was the plane on time?	Find: 3/5 of 45 7/8 of 32 4/7 of 28 ¾ of 24 5/6 of 54	Pizzas are to be cut into 8 slices. How many pizzas are needed to serve one slice to each of 185 people?	On Monday the cafeteria serves either spaghetti or lasagna with either milk or juice. The dessert is either peaches or pears. How many combinations can be served?	
Napkins came in a box of 500. How many people could use 3 napkins each? How many more would be needed for another person?	Sue's guests finished 2 gal of punch. If each guest drank 1 cup of punch, how many guests did she have?	Jodi worked 5 weeks and 4 days this summer. Blair worked 41 days. Who worked more days?	Pedro made a domino chain 132 in long. Muni made one 16 feet long. Whose chain was longer? By how many inches?	Jim is 4 times older than Kate, who is 3 years younger than Will. How old is Jim if their combined age is 51 years?	A bread recipe calls for 5 cups of white flour and 1¼ cups of rye flour. How much more white than rye flour is needed?	
Of the 12 boys in the class, 2/6 has blonde hair, 1/12 has red hair, and the rest have brown hair. How many boys in the class have brown hair?	The fish tank has 12 goldfish. Sarah and Jim were each allowed to take home ¼ of the fish. How many fish were left in the tank?	How many 2-digit numbers have at least one digit 4? What is the perimeter of a rectangular with a width of 8m and a length of 17m?	The length of a rectangular floor is 12ft. Its perimeter is 42ft. What is the area of the floor?	Kat's backyard is rectangular with area of 50 sq yd. The width is 5 yd. How many yards of a fence do Kat need to put around the backyard?	7 X 8 All marks are equally spaced. Find X.	