Big Apple Academy   **Mathematics Department**

Grade 3 → 4 Summer Homework Math Package

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 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

<div align="right">www.a**mathsdictionaryforkids**.com/**dictionary**.html</div>

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- 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 1, 2015 - the first school day.

<div align="right">**Have a Great Summer!!**</div>

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July 3 → 4		Rounding Estimation Overestimate Underestimate	Place value	Sum Addends	Property of Addition	**Incoming 4th Grade**
Monday	**Tuesday**	**Wednesday** 1	**Thursday** 2	**Friday** 3	**Saturday** 4	
Difference Inverse Operations Fact Families 6	Variable Numerical and Algebraic Expressions 7	Equation The solution of the equation Evaluate expression 8	Product Factors Multiple 9	Property of Multiplication Distributive Property 10	Dividend Divisor Quotient Remainder 11	**Summer Home Work** VOCABULARY
Units of Time Elapsed Time Ordinal Numbers 13	Survey Data Tally Marks 14	Pictograph Line Plot Bar Graph Line Graph 15	Coordinate Grid Ordered Pair Plot 16	Range Median Mode Mean 17	Compatible Numbers Range 18	
Divisibility Rules 2,5,and 10 20	Divisibility Rules 3,9,6 21	Divisibility Rules 4, 11 22	Solid Figures Face Edge Vertex Net 23	Polygon Side Vertex Regular Polygon 24	Point Line Line Segment Ray 25	
Angle Type of angles 27	Pairs of lines Name of Polygons 28	Type of triangles 29	Standard form of the number Expanded form Word form Period 30	Type of quadrilaterals		
				31		

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July 3 → 4 Monday	Tuesday	Wednesday 1	Thursday 2	Friday 3	Saturday 4
		1. What is the value of k, if 47 – n = 30 2. 612 / 5 3. 597 / 7	1. Seven friends shared 259 stamps equally. How many did each friend receive? 2. 8.59 x 62	1. 6,327 / 9 2. 256 x 48 3. 67 – 8.56 4. 3.19 x 2.8	Paula ran for 195 minutes this weekend. She ran 25 min more on Saturday than on Sunday. For how long did she run each day?
Write the rule for each pattern and write the next number 6, 12, 18, 24, _ 7,15,12, 20,17,_ **6**	Dan collected 435 stamps. He gave away 187 of them. How many stamps did he have left? **7**	1. 7 – 1.28 2. 6.08 – 3.29 3. 5.67 x 24 4. 2917 / 4 **8**	21 games were bought for Children's Hospital. Each game cost $6.98. How much money was spent in all? **9**	Maria bought a shirt for $19.50 and pants for $18.95. He got $1.55 change. How much money did she have? **10**	8, 9, 6, 8, 7, 1, 3 Find the range, the mean, the median, and the mode. 9842 / 6 8x6 + 24/8 **11**
Write the rule for each pattern and write the next number 6,13,27,55 5,13,29,61 10,17,24,31 **13**	How many: Feet in 3 yards Quarts in 4 gallons Ounces in 7 pounds **14**	36, 40,45, 38, 40, 48, 42, 45,57,45 Find the range, the mean, the median, and the mode. **15**	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? **16**	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? **17**	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? **18**
Jo and Jill were 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? **20**	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? **21**	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? **22**	Sam has 20 coins, some of them are dimes and others are nickels. If the total is $1.55, how many dimes are there? **23**	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? **24**	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? **25**
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 scalene triangle have? **27**	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? **28**	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? **29**	1. Simplify: 22 – 3 + (8 –1)•4 2. Find: 338 x 46 **30**	**31**	**Incoming 4th Grade**

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August 3 → 4						Congruent Figures / Similar Figures / Motions — **Incoming 4th Grade**
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday** 1	
Line of Symmetry Perimeter Area **3**	Area of rectangle Volume of a Rectangular Prism **4**	Fraction Numerator Denominator **5**	Equivalent Fractions Rules to compare fractions **6**	Prime and Composite Numbers Common Factors Simplest form of fractions **7**	Mixed Number Improper fraction Circle Graphs **8**	**Summer Home Work VOCABULARY**
Customary Units of Length Inch Feet Yard Mile **10**	Customary Units of Capacity Cup Pint Quart Gallon **11**	Customary Units of Weight Ounce Pound **12**	Decimals Place Value Tenths Hundredths **13**	Compare Decimals Equivalent Decimals **14**	Metric Units of Length Meter **15**	
Metric Units Of Capacity Liter **17**	Mass and Metric Units **18**	Inequality Solution **19**	Probability Fair Unfair **20**	Money Name of Coins **21**	Order of Operations PEMDAS **22**	
Problem-Solving Strategy **24/31**	Temperature: units and important numbers **25**	Regrouping **26**	Even Numbers Odd Numbers Counting Numbers Whole Numbers **27**	Unit cost Unit Fractions **28**	Mathematics Tools **29**	

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August 3 → 4					Find the range: 23, 31, 19, 47 2.15, 1.98, 3.79, 2.43 45, 238, 70, 875, 82	**Incoming 4th Grade**
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday** 1	**Summer Home Work for FUN**
Pizzas are to be cut into 8 slices. How many pizzas are needed to serve one slice to each of 185 people? **3**	Pedro made a domino chain that was 132 in long. Muni made one that was 16 feet long. Whose chain was longer? By how many inches? **4**	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. **5**	Mike bought 2 pounds of chocolate. His coworkers ate 21 ounces of it. How much chocolate does Mike have left? **6**	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 **7**	What is the difference: 7tenths and 2fifths 8sixteenths and 1eigths 9tenths and 1half **8**	
Mandy made salads. There were 5 tomato slices on each. How many salads did she make with 121 slices? **10**	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? **11**	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? **12**	Find: *3/5 of 45* *7/8 of 32* *4/7 of 28* *¾ of 24* *5/6 of 54* **13**	Bob tossed the fair coin and got 80 heads and 19 tails. What is his chance to get a head for the next toss? **14**	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? **15**	
Napkins came in a box of 500. How many people could use 3 napkins each? How many more would be needed for another person? **17**	Sue's guests finished 2 gal of punch. If each guest drank 1 cup of punch, how many guests did she have? **18**	Jodi worked 5 weeks 4 days this summer. Blair worked 41 days. Who worked more days? **19**	Four teams competed in a race. How many combinations of first, second, third, and fourth place can be made? **20**	Find the sum of: 4 and 5eigths and 3 and 3fourths 2 and 1thirds and 3 and 2ninths. **21**	A bread recipe calls for 5½ cups of white flour and 1¼ cups of rye flour. How much more white than rye flour is needed? **22**	
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? **24/31**	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? **25**	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? **26**	The length of a rectangular floor is 12ft. Its perimeter is 42ft. What is the area of the floor? **27**	Kat's backyard is rectangular with area of 50 sq yd. The width is 5 yd. How many yards of fence does Kat need to put around the backyard? **28**	.__.__.__.__.__.__ 0 X 1 All marks are equally spaced. Find X. **29**	