

**Big Apple Academy
2021
Mathematics Department**



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.

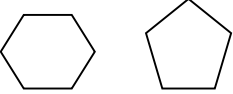
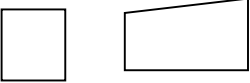

Do not forget to bring your notebook to school on September 9, 2021 - the first school day.

Have a Great Summer!!

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Mathematics Department

<div style="background-color: black; color: white; padding: 5px; font-weight: bold; font-size: 24px;">July</div> <p>4 → 5</p> <p>Monday</p>	<p>Tuesday</p>	<p>Wednesday</p>	<p>Thursday 1</p>	<p>Friday 2</p>	<p>Saturday 3</p>	<p>Incoming 5th Grade</p>
<p>Variables Algebraic Expression Evaluate</p> <p style="text-align: right;">5</p>	<p>Equations Solution</p> <p style="text-align: right;">6</p>	<p>Division Pattern Factors</p> <p style="text-align: right;">7</p>	<p>Divisibility rules Prime numbers Composite numbers</p> <p style="text-align: right;">8</p>	<p>Prime factorization</p> <p style="text-align: right;">9</p>	<p>Order of operations Variable</p> <p style="text-align: right;">10</p>	<p>Summer Home Work VOCABULARY</p>
<p>Dividing by 2 digit divisors Dividing larger Numbers</p> <p style="text-align: right;">12</p>	<p>Order of operations using fractions</p> <p style="text-align: right;">13</p>	<p>Expression</p> <p style="text-align: right;">14</p>	<p>Line Line segment Ray Plane</p> <p style="text-align: right;">15</p>	<p>Parallel lines Intersecting lines Perpendicular lines</p> <p style="text-align: right;">16</p>	<p>List of first 10 prime numbers</p> <p style="text-align: right;">17</p>	
<p>Polygon</p> <p style="text-align: right;">19</p>	<p>Classifying Triangles</p> <p style="text-align: right;">20</p>	<p>Quadrilaterals Parallelogram Rectangle Rhombus</p> <p style="text-align: right;">21</p>	<p>Square Trapezoid</p> <p style="text-align: right;">22</p>	<p>Fractions Improper fraction Mixed number</p> <p style="text-align: right;">23</p>	<p>Equivalent Fractions Decimals</p> <p style="text-align: right;">24</p>	
<p>Factor GCF LCM</p> <p style="text-align: right;">26</p>	<p>Simplest form Comparing fractions</p> <p style="text-align: right;">27</p>	<p>Adding Subtracting Fractions and Mixed numbers</p> <p style="text-align: right;">28</p>	<p>Place Value Comparing whole Numbers Standard form Expanded form</p> <p style="text-align: right;">29</p>	<p>Multiplying fractions Multiplying mixed numbers</p> <p style="text-align: right;">30</p>	<p>Adding and Subtracting Rounding</p> <p style="text-align: right;">31</p>	

<div style="background-color: black; color: white; padding: 5px; text-align: center; font-weight: bold; font-size: 24px;">July</div> <p style="text-align: center; font-weight: bold;">4 → 5 Monday</p>	<p style="text-align: center; font-weight: bold;">Tuesday</p>	<p style="text-align: center; font-weight: bold;">Wednesday</p>	<p>In the number 44.444 which digit has 1/10 the value of the 4 in the hundredth place?</p> <p style="text-align: center; font-weight: bold;">Thursday 1</p>	<p>Find $75,397.5 + 897.04$ $6.7 - 3.85$</p> <p style="text-align: center; font-weight: bold;">Friday 2</p>	<p>Find each product 737×54 409×36</p> <p style="text-align: center; font-weight: bold;">Saturday 3</p>	<p style="text-align: center; font-weight: bold; font-size: 24px;">Incoming 5th Grade</p>
<p>Evaluate each expression for $n=6$ $n \times 8.4$; $11.2 - n$</p> <p style="text-align: right; font-weight: bold;">5</p>	<p>Solve each equation $37 - m = 15$ $25.5b = 25.5$</p> <p style="text-align: right; font-weight: bold;">6</p>	<p>Write the next Number in this pattern 37,49,61,73, ...</p> <p style="text-align: right; font-weight: bold;">7</p>	<p>Find all the factors of 60 85</p> <p style="text-align: right; font-weight: bold;">8</p>	<p>Write the prime Factorization. Use exponents for each: 200; 162</p> <p style="text-align: right; font-weight: bold;">9</p>	<p>Use the order of operations $135 - 3 - (4 \times 12) + 16$</p> <p style="text-align: right; font-weight: bold;">10</p>	
<p>Find each quotient $7,368 \div 72$ $36,144 \div 48$</p> <p style="text-align: right; font-weight: bold;">12</p>	$1\frac{1}{3} \times 6 - \frac{2}{3} + 4\frac{5}{8}$ <p style="text-align: right; font-weight: bold;">13</p>	<p>Find the Quotient of the sum of the numbers 64,59,58,58,61</p> <p style="text-align: right; font-weight: bold;">14</p>	<p>Draw and label Two lines segments Two parallel rays Two perpendicular lines</p> <p style="text-align: right; font-weight: bold;">15</p>	<p>Draw and label Two intersecting, But not perpendicular, Line segments</p> <p style="text-align: right; font-weight: bold;">16</p>	<p>Find the sum of the first ten prime numbers.</p> <p style="text-align: right; font-weight: bold;">17</p>	
<div style="display: flex; justify-content: space-around;">  </div> <p>How are the figures alike?</p> <p style="text-align: right; font-weight: bold;">19</p>	<p>The measures of two angles of a triangle are 126°, 24°. Find the measure of the third angle.</p> <p style="text-align: right; font-weight: bold;">20</p>	<p>In quadrilateral three angles are 95°, 140°, 25°. Find the fourth angle.</p> <p style="text-align: right; font-weight: bold;">21</p>	<p>Classify each quadrilateral</p> <div style="display: flex; justify-content: space-around;">  </div> <p>Find the measure Of the fourth angle 140°; 140°; 30°.</p> <p style="text-align: right; font-weight: bold;">22</p>	<p>Write as a mixed number $\frac{51}{10}$; $\frac{32}{9}$; $\frac{601}{20}$; $\frac{84}{12}$. Write as an improper fraction $5\frac{2}{3}$ $40\frac{2}{5}$; $21\frac{2}{3}$; $36\frac{1}{2}$</p> <p style="text-align: right; font-weight: bold;">23</p>	<p>Write each fraction or mixed number as a decimal $\frac{4}{5}$; $\frac{13}{20}$; $12\frac{2}{5}$; $6\frac{1}{8}$</p> <p style="text-align: right; font-weight: bold;">24</p>	
<p>What is the GCF Of 18 and 63 What is the LCM Of 9 and 4</p> <p style="text-align: right; font-weight: bold;">26</p>	<p>Simplify each fraction $\frac{12}{30}$; $\frac{14}{42}$; $\frac{12}{48}$; $\frac{24}{60}$. Compare fractions $\frac{5}{6}$ and $\frac{5}{8}$; $5\frac{1}{5}$ and $5\frac{1}{3}$</p> <p style="text-align: right; font-weight: bold;">27</p>	<p>Find each sum Or difference $\frac{9}{10} - \frac{3}{4}$; $11 - 2\frac{5}{6}$ $12\frac{3}{5} + 3\frac{3}{8}$; $3\frac{1}{6} - 2\frac{1}{5}$</p> <p style="text-align: right; font-weight: bold;">28</p>	<p>Write the value of the digit 6 in 87,642 Write number in Expanded form 7,450,693,000</p> <p style="text-align: right; font-weight: bold;">29</p>	<p>Find each product $\frac{2}{3} \times \frac{7}{8}$ $\frac{8}{9} \times 27$</p> <p style="text-align: right; font-weight: bold;">30</p>	<p>Round 4,362,045 to the nearest hundred thousand. Compare 73.42 and 72.56</p> <p style="text-align: right; font-weight: bold;">31</p>	

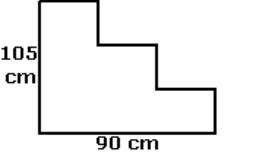
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<div style="background-color: black; color: white; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">August</div> <div style="text-align: center; padding: 5px;">4 → 5</div> <div style="text-align: center; padding: 5px;">Monday 2</div>	<div style="text-align: center; padding: 5px;">Tuesday 3</div>	<div style="text-align: center; padding: 5px;">Wednesday 4</div>	<div style="text-align: center; padding: 5px;">Thursday 5</div>	<div style="text-align: center; padding: 5px;">Friday 6</div>	<div style="text-align: center; padding: 5px;">Saturday 7</div>	<div style="text-align: center; padding: 5px;">Incoming 5th Grade</div>
Dividing fractions Dividing mixed numbers <div style="text-align: right;">9</div>	Base Height Area of squares Area of rectangles <div style="text-align: right;">10</div>	Perimeter <div style="text-align: right;">11</div>	Properties of quadrilaterals <div style="text-align: right;">12</div>	Time Units of time Elapsed time <div style="text-align: right;">13</div>	Order of operations <div style="text-align: right;">14</div>	<div style="text-align: center; padding: 5px;">Summer Home Work VOCABULARY</div>
Solid figures Faces Vertex Edge <div style="text-align: right;">16</div>	Perimeter of irregular figures <div style="text-align: right;">17</div>	Volume Formula <div style="text-align: right;">18</div>	Customary Units of Capacity Metric Units of Capacity <div style="text-align: right;">19</div>	Customary Units of Weight Metric Units of mass <div style="text-align: right;">20</div>	Customary units of length Metric units of length <div style="text-align: right;">21</div>	
Rates Scale drawings Unit rate <div style="text-align: right;">23</div>	Triangle Classify the triangles by sides and angles <div style="text-align: right;">24</div>	Area Rectangle Perimeter <div style="text-align: right;">25</div>	Equation Properties of equality Inverse operations <div style="text-align: right;">26</div>	Solving addition And subtraction equations <div style="text-align: right;">27</div>	Solving multiplication and division equations <div style="text-align: right;">28</div>	
Prime and composite numbers <div style="text-align: right;">30</div>	Like denominators unlike denominators <div style="text-align: right;">31</div>					

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<div style="background-color: black; color: white; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">August</div> <p style="text-align: center; font-weight: bold;">4 → 5</p> <p style="text-align: center;">Monday 2</p>	<p>Find the volume of a rectangular prism with dimensions that equal 5in, 8 in, 4 in.</p> <p style="text-align: center;">Tuesday 3</p>	<p>List the prime numbers between 6 and 20.</p> <p style="text-align: center;">Wednesday 4</p>	<p>The sum is 32. One addend is a multiple of 5 and one addend is a multiple of 3. Write the equation.</p> <p style="text-align: center;">Thursday 5</p>	<p>What common factors do 10 and 30 share?</p> <p style="text-align: center;">Friday 6</p>	<p>Is $\frac{10}{16} = \frac{15}{20}$? Why or why not? Explain.</p> <p style="text-align: center;">Saturday 7</p>	<h2 style="margin: 0;">Incoming 5th Grade</h2>
<p>How many $\frac{1}{4}$s in $\frac{3}{4}$?</p> <p>$5\frac{1}{7} \div 2\frac{2}{7} = ?$</p> <p style="text-align: right;">9</p>	<p>Find the area of a rectangle with Sides 3.4m and 6.5m</p> <p>Find the area of a square with side 2.4 cm.</p> <p style="text-align: right;">10</p>	<p>Find the perimeter Of rectangle L= 6.3 cm W = 14.2 cm</p> <p style="text-align: right;">11</p>	<p>Give the best name for a four-sided polygon whose angles are all right angles and whose sides are all the same length.</p> <p style="text-align: right;">12</p>	<p>Find each elapsed time</p> <p>8 : 16 am to 12: 35 pm.</p> <p>4 : 22 am to 10 : 50 am</p> <p style="text-align: right;">13</p>	<p>Place parentheses in the following equation to make it true.</p> <p>$6 + 6 \div 6 \times 6 - 6 = 0$</p> <p style="text-align: right;">14</p>	
<p>How are a cylinder and a cone alike? A square prism has How many faces, Vertices, edges?</p> <p style="text-align: right;">16</p>	<div style="text-align: center;">  <p>Find the perimeter</p> </div> <p style="text-align: right;">17</p>	<p>Find the volume Of rectangular prism l=14mm w=7mm h=1.3mm</p> <p style="text-align: right;">18</p>	<p>Copy and complete</p> <p>17qt = ----- pt. 6gal 2qt = ----- qt 6c 2fl oz. – 5fl oz.= 9lb 8oz + 7lb 9oz =</p> <p style="text-align: right;">19</p>	<p>Copy and complete</p> <p>300kg =----- g 362mg = -----g 700L = ----- mL</p> <p style="text-align: right;">20</p>	<p>Complete</p> <p>38 in= -----ft. 8ff 5in=-----in 9yd 1ft ----- ft. 20m = ----- cm</p> <p style="text-align: right;">21</p>	
<p>Which is the better Buy? \$2.96 for 8 pears Or \$1.70 for 5 pears</p> <p style="text-align: right;">23</p>	<p>Is it possible to make an equilateral obtuse triangle? Explain</p> <p style="text-align: right;">24</p>	<p>What is the greatest area of a rectangle with a perimeter of 50?</p> <p style="text-align: right;">25</p>	<p>Write what inverse operation you would use to get n for: n – 6; 92 + n; n x 18</p> <p style="text-align: right;">26</p>	<p>Solve each equation</p> <p>p + 232 = 750 a – 7.3 = 12.6</p> <p style="text-align: right;">27</p>	<p>Solve each equation</p> <p>320 = 16 x m 28 ÷ s = 560</p> <p style="text-align: right;">28</p>	
<p>The number 59 and I are the only two prime numbers between 50 and 60. Who am I?</p> <p style="text-align: right;">30</p>	<p>One-half of a number added to one-fourth of 96 is 30. What is the number?</p> <p style="text-align: right;">31</p>					