



## **Grade 4 → 5 Summer Homework Math Package**

It is important that you keep practicing your mathematical Knowledge over the summer to be ready for **5<sup>th</sup> 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:

[www.amathsdictionaryforkids.com/dictionary.html](http://www.amathsdictionaryforkids.com/dictionary.html)

- 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.

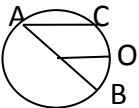
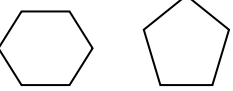
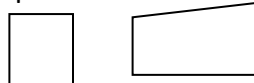
Do not forget to bring your notebook to school on September 1, 2015 - the first school day.

**Have a Great Summer!!**

# Big Apple Academy


# Mathematics Department

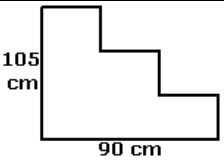
<div style="background-color: black; color: white; padding: 5px; display: inline-block;"><b>July</b></div> <b>4 → 5</b>			Adding and Subtracting Rounding	Estimating sums and differences Estimating Products	Adding Decimals Subtracting Decimals	Multiplying Distributive Property Estimating	<b>Incoming 5th Grade</b>
<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday 1</b>	<b>Thursday 2</b>	<b>Friday 3</b>	<b>Saturday 4</b>		
Variables Algebraic Expression Evaluate  <b>6</b>	Equations Solution  <b>7</b>	Division Pattern Factors  <b>8</b>	Divisibility rules Prime numbers Composite numbers  <b>9</b>	Prime factorization  <b>10</b>	Order of operations Variable  <b>11</b>		<b>Summer Home Work VOCABULARY</b>
Dividing by 2 digit divisors Dividing larger Numbers  <b>13</b>	Order of operations using fractions  <b>14</b>	Mean Median Mode Range  <b>15</b>	Line Line segment Ray <b>Plane</b>  <b>16</b>	Parallel lines Intersecting lines Perpendicular lines  <b>17</b>	Circle Radius Diameter Chord Central angle  <b>18</b>		
Polygon Regular polygon  <b>20</b>	Classifying Triangles  <b>21</b>	Quadrilaterals Parallelogram Rectangle Rhombus  <b>22</b>	Square Trapezoid  <b>23</b>	Fractions Improper fraction Mixed number  <b>24</b>	Equivalent Fractions Decimals  <b>25</b>		
Factor GCF LCM  <b>27</b>	Simplest form Comparing fractions  <b>28</b>	Adding Subtracting Fractions and Mixed numbers  <b>29</b>	Place Value Comparing whole Numbers Standard form Expanded form  <b>30</b>	Multiplying fractions Multiplying mixed numbers  <b>31</b>			

<div style="background-color: black; color: white; padding: 5px; text-align: center; font-size: 24px; font-weight: bold;">July</div> <p style="text-align: center; font-size: 18px; font-weight: bold;">4 → 5</p> <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 1</p>	<p style="text-align: center; font-weight: bold;">Thursday 2</p>	<p style="text-align: center; font-weight: bold;">Friday 3</p>	<p style="text-align: center; font-weight: bold;">Saturday 4</p>	<p style="font-size: 24px; font-weight: bold;">Incoming 5<sup>th</sup> Grade</p>
<p>Evaluate each expression for n=6 n x 8.4; 11.2 - n</p> <p style="text-align: right; font-weight: bold;">6</p>	<p>Solve each equation 37 - m = 15 25.5b = 25.5</p> <p style="text-align: right; font-weight: bold;">7</p>	<p>Write the next Number in this pattern 37,49,61,73, ...</p> <p style="text-align: right; font-weight: bold;">8</p>	<p>Find all the factors of 60 85</p> <p style="text-align: right; font-weight: bold;">9</p>	<p>Write the prime Factorization. Use exponents for each: 200 ; 162</p> <p style="text-align: right; font-weight: bold;">10</p>	<p>Use the order of operations 135 - 3 - (4 x 12) + 16</p> <p style="text-align: right; font-weight: bold;">11</p>	<p style="font-size: 24px; font-weight: bold;">Summer Home Work for FUN</p>
<p>Find each quotient 7,368 ÷ 72 36,144 ÷ 48</p> <p style="text-align: right; font-weight: bold;">13</p>	$1\frac{1}{3} \times 6 - \frac{2}{3} + 4\frac{5}{8}$ <p style="text-align: right; font-weight: bold;">14</p>	<p>Find the mean , Median, and mode 64,59,58,58,61</p> <p style="text-align: right; font-weight: bold;">15</p>	<p>Draw and label Two lines segments Two parallel rays Two perpendicular lines</p> <p style="text-align: right; font-weight: bold;">16</p>	<p>Draw and label Two intersecting, But not perpendicular, Line segments</p> <p style="text-align: right; font-weight: bold;">17</p>	 <p>Diameter ----- Chord -----</p> <p style="text-align: right; font-weight: bold;">18</p>	
 <p>How are the figures alike?</p> <p style="text-align: right; font-weight: bold;">20</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;">21</p>	<p>In quadrilateral three angles are 95°, 140°, 25°. Find the fourth angle.</p> <p style="text-align: right; font-weight: bold;">22</p>	<p>Classify each quadrilateral</p>  <p>Find the measure Of the fourth angle 140°; 140°; 30°.</p> <p style="text-align: right; font-weight: bold;">23</p>	<p>Write as a mixed number <math>\frac{51}{10}</math>; <math>\frac{32}{9}</math>; <math>\frac{601}{20}</math>; <math>\frac{84}{12}</math>. Write as an improper fraction 5<math>\frac{2}{3}</math> 40%; 21<math>\frac{2}{3}</math>; 36 <math>\frac{1}{2}</math></p> <p style="text-align: right; font-weight: bold;">24</p>	<p>Write each fraction or mixed number as a decimal <math>\frac{4}{5}</math>; <math>\frac{13}{20}</math>; 12%; 6%</p> <p style="text-align: right; font-weight: bold;">25</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;">27</p>	<p>Simplify each fraction <math>\frac{12}{30}</math>; <math>\frac{14}{42}</math>; <math>\frac{12}{48}</math>; <math>\frac{24}{60}</math>. Compare fractions <math>\frac{5}{6}</math> and <math>\frac{5}{8}</math> 5<math>\frac{1}{5}</math> and 5<math>\frac{1}{3}</math></p> <p style="text-align: right; font-weight: bold;">28</p>	<p>Find each sum Or difference <math>\frac{9}{10} - \frac{3}{4}</math>; 11 - 2<math>\frac{5}{6}</math> 12<math>\frac{3}{5}</math> + 3<math>\frac{3}{8}</math>; 3<math>\frac{1}{6}</math> - 2<math>\frac{1}{5}</math></p> <p style="text-align: right; font-weight: bold;">29</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;">30</p>	<p>Find each product <math>\frac{2}{3} \times \frac{7}{8}</math> <math>\frac{8}{9} \times 27</math></p> <p style="text-align: right; font-weight: bold;">31</p>		

# Big Apple Academy

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<b>August</b>							<b>Incoming 5th Grade</b>
<b>4 → 5</b>							
<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	<b>Saturday</b>	<b>1</b>	
Dividing fractions Dividing mixed numbers  <b>3</b>	Base Height Area of squares Area of rectangles  <b>4</b>	Perimeter   <b>5</b>	Properties of quadrilaterals   <b>6</b>	Time Units of time Elapsed time   <b>7</b>	Temperature    <b>8</b>		<b>Summer Home Work VOCABULARY</b>
Solid figures Faces Vertex Edge   <b>10</b>	Perimeter of irregular figures   <b>11</b>	Volume Formula   <b>12</b>	Customary Units of Capacity Metric Units of Capacity   <b>13</b>	Customary Units of Weight Metric Units of mass   <b>14</b>	Customary units of length Metric units of length   <b>15</b>		
Rates Scale drawings Unit rate   <b>17</b>	Triangle Classify the triangles by sides and angles   <b>18</b>	Area Rectangle Perimeter   <b>19</b>	Equation Properties of equality Inverse operations   <b>20</b>	Solving addition And subtraction equations   <b>21</b>	Solving multiplication and division equations   <b>22</b>		
Prime and composite numbers   <b>24</b>	like denominators unlike denominators   <b>25</b>	Decimal   <b>26</b>	The Coordinate Plane   <b>27</b>	Mean Median Mode Range   <b>28</b>	Probability   <b>29</b>		

<b>August</b> 4 → 5						Is $\frac{10}{16} = \frac{15}{20}$ ? Why or why not? Explain.	<b>Incoming 5th Grade</b>
<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	<b>Saturday</b>	<b>1</b>	
<p>How many <math>\frac{1}{4}</math>s in <math>\frac{3}{4}</math>?</p> <p><math>5\frac{1}{7} \div 2\frac{2}{7} = ?</math></p> <p style="text-align: right;"><b>3</b></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;"><b>4</b></p>	<p>Find the perimeter Of rectangle L= 6.3 cm W = 14.2 cm</p> <p style="text-align: right;"><b>5</b></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;"><b>6</b></p>	<p>Find each elapsed time 8 : 16 am to 12: 35 pm.</p> <p>4 : 22 am to 10 : 50 am</p> <p style="text-align: right;"><b>7</b></p>	<p>Find each change In temperature 97 ° F to 79 ° F</p> <p>17° F to - 3° F</p> <p style="text-align: right;"><b>8</b></p>		<b>Summer Home Work for FUN</b>
<p>How are a cylinder and a cone alike? A square prism has How many faces, Vertices, edges?</p> <p style="text-align: right;"><b>10</b></p>	 <p>Find the perimeter</p> <p style="text-align: right;"><b>11</b></p>	<p>Find the volume Of rectangular prism l=14mm w=7mm h=1.3mm</p> <p style="text-align: right;"><b>12</b></p>	<p>Copy and complete 17qt = ----- pt. 6gal 2qt = ----- qt 6c 2fl oz. – 5fl oz.= 700L = ----- mL</p> <p style="text-align: right;"><b>13</b></p>	<p>Copy and complete 300kg =----- g 362mg = -----g 9lb 8oz + 7lb 9oz =</p> <p style="text-align: right;"><b>14</b></p>	<p>Complete 38 in= -----ft. 8ff 5in=-----in 9yd 1ft ----- ft. 20m = ----- cm</p> <p style="text-align: right;"><b>15</b></p>		
<p>Which is the better Buy? \$2.96 for 8 pears Or \$1.70 for 5 pears</p> <p style="text-align: right;"><b>17</b></p>	<p>Is it possible to make an equilateral obtuse triangle? Explain</p> <p style="text-align: right;"><b>18</b></p>	<p>What is the greatest area of a rectangle with a perimeter of 50?</p> <p style="text-align: right;"><b>19</b></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;"><b>20</b></p>	<p>Solve each equation p + 232 = 750 a – 7.3 = 12.6</p> <p style="text-align: right;"><b>21</b></p>	<p>Solve each equation 320 = 16 x m 28 ÷ s = 560</p> <p style="text-align: right;"><b>22</b></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;"><b>24</b></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;"><b>25</b></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: right;"><b>26</b></p>	<p>Use the coordinate plane to graph Each set of points (0, -3) (+5, -1) (+6, +2) (-1, +7) (+6, +6) (+7, 0) (-2, +3)</p> <p style="text-align: right;"><b>27</b></p>	<p>Find the mean, median, mode and range of a data set. 1.8, 1.95, 1.85, 1.8, 1.6</p> <p style="text-align: right;"><b>28</b></p>	<p>Find the probability of getting a sum of 5 or a sum of 7 when two cubes are tossed.</p> <p style="text-align: right;"><b>29</b></p>	