



Summer Math Activities for Students Entering Grade 6 Middle School

Dear Rising 6th Grader,

We are excited for you to be starting the 6th grade with us at Amani Public Charter School in September! The following problems and websites are designed to allow you to practice your math skills throughout the summer in an effort to keep your skills sharp so you will be ready to start 6th grade math with a fresh math brain!

The questions correspond to the Math concepts you studied in 5th grade: Operations and Algebraic Thinking, Number and Operations in Base Ten, Number and Operations-Fraction, The Number System, Measurement and Data, and Geometry.

The questions also focus on the processes and proficiencies of becoming a successful mathematician called The Standards for Mathematical Practice:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

The problems are designed so you work on them gradually over the course of the summer, rather than waiting until the end of August or doing them all at the beginning of July. For every week in July and August there are 5 activity questions on the calendar. If done gradually, the activities and tasks should be very manageable, so please plan accordingly. You may use additional paper to work on problems if you need to do so. **Please do your best and show all your work; remember this work will be our first glimpse of who you are as a student!** If you need help with any of the math concepts a few good math websites are: www.mathisfun.com, www.mathplayground.com, www.virtualnerd.com, and www.khanacademy.com.

Completed packets are due August 25, 2023 and they will count toward your first quarter grade. Please submit your packet digitally using this Google Classroom information:

Sixth Grade (Class of 2026)	Turn in to your Google Classroom for your grade "6th Grade 2023-2024" - Class Code 76js2lq
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If you cannot submit it digitally then you can bring a hard copy of your work to the school's main office. We hope you have a relaxing and safe summer and we look forward to seeing you in the fall!

Sincerely,
Grade 6 Math Teachers

July Summer Math Calendar - Rising 6th Graders

	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	
	<p>Activity 1</p> <p>Order these fractions from least to greatest:</p> $8, \frac{3}{5}, \frac{4}{6}, \frac{1}{2}, \frac{1}{7}$	<p>Activity 2</p> <p>Simplify:</p> $(2 \times 4) + 300 \div 5$	<p>Activity 3</p> <p>The perimeter of a square is 52 cm. What is the length of each side?</p>	<p>Activity 4</p> <p>Jen is 12. Amy is 13. In 25 years, what will be the product of their ages?</p>	<p>Activity 5</p> <p>Write 347,392 in expanded form.</p>	
	<p>Activity 6</p> <p>List all the factors of: 18</p> <p>54</p>	<p>Activity 7</p> <p>Write this mixed number as an improper fraction: $2\frac{4}{5}$</p>	<p>Activity 8</p> <p>Express each fraction as a decimal:</p> $\frac{4}{10}, \frac{37}{100}, \frac{13}{1,000}$	<p>Activity 9</p> <p>What is the value of the 7 in the number 472,085?</p>	<p>Activity 10</p> <p>Evaluate:</p> $5.7 + 6.09 =$ $9.03 - 1.5 =$ $5.5 - 3.01 =$	
	<p>Activity 11</p> <p>Round to the place value highlighted in bold:</p> <p>6,708 8.96 803,985 0.744</p>	<p>Activity 12</p> <p>Multiply:</p> $46 \times 2 =$	<p>Activity 13</p> <p>Write in standard form:</p> $(6 \times 100) + (5 \times 10) + (3 \times 1) + (4 \times \frac{1}{10}) + (3 \times \frac{1}{100})$	<p>Activity 14</p> <p>Find the area:</p> <p>7 cm</p> <p>12 cm</p>	<p>Activity 15</p> <p>Order the following from least to greatest: 0.03, 1.01, 0.9, 0.905</p>	
	<p>Activity 16</p> <p>If 1,000 pencils cost \$20, how much would ten pencils cost?</p>	<p>Activity 17</p> <p>Solve:</p> $\begin{array}{r} 324 \\ \times 4.5 \\ \hline \end{array}$	<p>Activity 18</p> <p>What is the largest multiple of 4 that is less than 30?</p>	<p>Activity 19</p> <p>$1\frac{3}{4}, 3\frac{1}{2}, 7, \underline{\quad}, 28$</p> <p>In the pattern above, what number belongs between 7 and 28?</p>	<p>Activity 20</p> <p>Simplify:</p> $\frac{8}{6} =$ $\frac{25}{15} = 8$	

	<p>Activity 16 Box A is 2 cm high, 3 cm wide, and 5 cm long. Box B has twice the height, 3 times the width and the same length as Box A. What is the difference in volume of the 2 boxes?</p>	<p>Activity 17 You have $2\frac{5}{8}$ pizzas to share equally with 3 people. How much pizza will each person get?</p>	<p>Activity 18 A California condor has an approximate wingspan of 108 inches. How many yards is that?</p>	<p>Activity 19 If you buy 3 books at \$3.95 each, how much change would you get from a twenty dollar bill?</p>	<p>Activity 20 Evaluate: $2 \times (5 + 3 \times 2 + 4)$</p>	
	<p>Activity 21 On Saturday $\frac{3}{4}$ of a 5th grade class went to see a movie. If $\frac{1}{2}$ of the class went to the afternoon show, what fraction of the class went in the evening?</p>	<p>Activity 22 If you spend \$100.00 a day, how many days will it take to spend 1 million dollars? About how many years is that?</p>	<p>Activity 23 Is a 3 gallon pitcher large enough to hold 25 pints of lemonade? Explain.</p>	<p>Activity 24 A rectangle is twice as long as it is wide. Its width is $5\frac{1}{2}$ cm. Find the area of the rectangle.</p>	<p>Activity 25 Susie has 3 cups of almonds. She splits the 3 cups into $\frac{1}{3}$-cup servings. What is the total number of servings Susie has?</p>	

July Summer Math Calendar ANSWERS - Rising 6th Graders

<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Activity 1	Activity 2	Activity 3	Activity 4	Activity 5
Activity 6	Activity 7	Activity 8	Activity 9	Activity 10

Activity 11	Activity 12	Activity 13	Activity 14	Activity 15
Activity 16	Activity 17	Activity 18	Activity 19	Activity 20

August Summer Math Calendar ANSWERS - Rising 6th Graders

<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Activity 1	Activity 2	Activity 3	Activity 4	Activity 5
Activity 6	Activity 7	Activity 8	Activity 9	Activity 10

Activity 11	Activity 12	Activity 13	Activity 14	Activity 15
Activity 16	Activity 17	Activity 18	Activity 19	Activity 20
Activity 21	Activity 22	Activity 23	Activity 24	Activity 25

