



Summer Math Packet for Incoming 7th Grade

Dear Students and Families,

I know that your sixth grade year ended much differently than you could have ever imagined. As I start thinking about your seventh grade year, I want you to have the opportunity to practice your math skills. I have broken up each week to reinforce one topic per day. There are only a few questions to do each day. And you may also choose to do the whole week in one day. Enough work has been provided for 6 weeks but please only do what you feel you can complete this summer. It is important that you come to school excited to learn next year and not overwhelmed.

I would suggest that you try **NOT** using a calculator to solve these problems. If you struggle on any problem, the next page lists a few helpful websites and links to Khan Academy videos.

I will happily receive your completed math packet as early as you are finished with it. (You can scan it in using the Genius Scan app and email it to me at lflynn@theglobeacademy.net) or as late as two weeks after school begins in the fall. Again, I only want you to do what you can do. Don't stress about math!

If you are looking for other kinds of math activities, I suggest: playing cards with your family, play a board game, do some brain teasers and maybe go shopping to try to calculate discounts or sales tax.

There is plenty of math to learn this coming year. It will be much easier to begin 7th grade if all students remember what they learned in 6th grade. Hopefully this packet will give you a jump-start to 7th grade math.

I am looking forward to our year together!

Love,

Mrs. Flynn

Useful Websites

www.tenmarks.com/login/user

www.khanacademy.org/math/

www.mathisfun.com

www.coolmath.org

www.mathgoodies.com

www.purplemath.com/modules/index.htm

Having trouble with any of the above problems?

You can find a few informative videos on the following topics. When you get to each concept, select the appropriate video from the list in the right hand column.

Decimal Operations

<https://www.khanacademy.org/math/arithmetic/decimals>

Fractions Operations

<https://www.khanacademy.org/math/pre-algebra/fractions-pre-alg>

Factors, GCF, LCD, and LCM

<https://www.khanacademy.org/math/pre-algebra/factors-multiples>

Order of Operations and Distributive Property

<https://www.khanacademy.org/math/pre-algebra/order-of-operations>

Evaluating and Translating Expressions

<https://www.khanacademy.org/math/algebra/introduction-to-algebra>

Solving Equations

<https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities>

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Week 1



<p>Day 1- Basic Skills <i>Simply the following fractions</i></p> <p>1. $\frac{12}{20} =$</p> <p>2. $\frac{6}{27} =$</p> <p>3. $\frac{12}{18} =$</p>	<p>Day 2 -Operations with Decimals</p> <p>1. $5 + 7.84 + 28.062$</p> <p>2. $503 + 236.408 + 2.898$</p>
<p>Day 3 -Operations with Fractions <i>Add the following fractions. Remember to use common denominators.</i></p> <p>1. $\frac{1}{4} + \frac{3}{8} =$</p> <p>2. $\frac{7}{9} + \frac{5}{6} =$</p>	<p>Day 4 - Expressions <i>Evaluate</i></p> <p>1. $150 + n$ if $n = 15$</p> <p>2. $30n$ if $n = 2.5$</p> <p>3. $5n + 3$ if $n = 4$</p>
<p>Day 5 - Solving Equations</p> <p>1. $x + 9 = 18$</p> <p>2. $n + 3.5 = 10.5$</p>	<p>Day 6 - Potpourri Exponents <i>Write each expression in exponential form</i></p> <p>1. $8 \cdot 8 \cdot 8 =$</p> <p>2. $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 =$</p> <p>3. $4 \cdot 4 \cdot 4 \cdot 4 =$</p>

Week 2



<p>Day 1 -Basic Skills <i>Find the equivalent fraction for each</i></p> <p>1. $\frac{3}{8} = \frac{\quad}{48}$</p> <p>2. $\frac{2}{5} = \frac{\quad}{20}$</p> <p>3. $\frac{1}{6} = \frac{\quad}{30}$</p>	<p>Day 2 -Operations with Decimals</p> <p>1. $215 - 204.8$</p> <p>2. $100 - 21.05 - 0.074$</p>
<p>Day 3 -Operations with Fractions <i>Subtract the following fractions. Remember to use common denominators.</i></p> <p>1. $\frac{7}{8} - \frac{3}{6} =$</p> <p>2. $\frac{3}{4} - \frac{1}{5} =$</p>	<p>Day 4 - Expressions <i>Evaluate</i></p> <p>1. $12n$ if $n = 9$</p> <p>2. $3n + 2$ if $n = 5$</p> <p>3. $4n \div k$ if $n = 6$ and $k = 8$</p>
<p>Day 5 - Solving Equations</p> <p>1. $x - 4 = 12$</p> <p>2. $n - 5.4 = 8.5$</p>	<p>Day 6 - Potpourri Exponents <i>Write each expression as repeated multiplication and find each value</i></p> <p>1. $2^5 =$</p> <p>2. $3^4 =$</p> <p>3. $5^3 =$</p>

Week 3



<p>Day 1 - Basic Skills <i>Order the following from least to greatest</i></p> <p>1. 2.17, 2.3, $2\frac{1}{8}$</p> <p>2. 0.2, 0.02, $\frac{1}{4}$</p>	<p>Day 2 - Operations with Decimals</p> <p>1. $7.32 \cdot 4.6$</p> <p>2. $1.36 \cdot 0.08$</p>
<p>Day 3 - Operations with Fractions</p> <p>1. $\frac{3}{8} \cdot \frac{5}{6} =$</p> <p>2. $3\frac{1}{2} \cdot \frac{7}{10} =$</p>	<p>Day 4 - Expressions <i>Translate each phrase to an expression</i></p> <p>1. a number minus 7</p> <p>2. the difference of two and a number</p> <p>3. the sum of a number and twenty-two</p>
<p>Day 5 - Solving Equations</p> <p>1. $2x = 12$</p> <p>2. $5n = 3.5$</p>	<p>Day 6 - Potpourri Order of Operations <i>Simplify each expression</i></p> <p>1. $4^2 + 48 \div (10 - 4)$</p> <p>2. $50 \div 5^2 + 7 \cdot 3$</p>

Week 4



<p>Day 1 - Basic Skills <i>What is the reciprocal of each of the following</i></p> <ol style="list-style-type: none">1. $\frac{5}{6}$2. 83. $2\frac{1}{3}$	<p>Day 2 -Operations with Decimals</p> <ol style="list-style-type: none">1. $6.48 \div 0.36$2. $27.9 \div 6.2$
<p>Day 3 -Operations with Fractions</p> <ol style="list-style-type: none">1. $\frac{2}{5} \div \frac{14}{15} =$2. $\frac{7}{8} \div \frac{1}{2} =$	<p>Day 4 - Expressions <i>Translate each phrase to an expression</i></p> <ol style="list-style-type: none">1. three more than n2. the product of fourteen and g3. the quotient of n and 5
<p>Day 5 - Solving Equations</p> <ol style="list-style-type: none">1. $\frac{x}{4} = 5$2. $\frac{n}{3} = 3.3$	<p>Day 6 - Potpourri Order of Operations <i>Simplify each expression</i></p> <ol style="list-style-type: none">1. $7 + 24 \div 6 \cdot 2$2. $5 \cdot (28 \div 7) - 4^2$

Week 5



<p>Day 1 - Basic Skills <i>Write the following fractions as decimals</i></p> <p>1. $\frac{3}{4}$</p> <p>2. $\frac{2}{5}$</p> <p>3. $\frac{7}{20}$</p>	<p>Day 2 - Operations with Decimals</p> <p>1. $11.49 + 0.083 =$</p> <p>2. $84.34 - 67.235 =$</p>
<p>Day 3 - Operations with Fractions</p> <p>1. $4\frac{2}{3} - 2\frac{1}{9} =$</p> <p>2. $1\frac{7}{10} + 3\frac{3}{4} =$</p>	<p>Day 4 - Expressions <i>Expand each expression by using the distributive property</i></p> <p>1. $2(x + 3)$</p> <p>2. $4(2 + n)$</p>
<p>Day 5 - Solving Equations</p> <p>1. $2x + 4 = 10$</p> <p>2. $3x + 5 = 11$</p>	<p>Day 6 - Potpourri <i>Find the GCF for each set</i></p> <p>1. 24 and 108</p> <p>2. 45, 18, and 39</p>

Week 6



<p>Day 1 - Basic Skills <i>Write each improper fraction as a mixed number and each mixed number as an improper fraction.</i></p> <p>1. $\frac{39}{4}$ 2. $\frac{26}{7}$</p> <p>3. $7\frac{5}{6}$ 4. $6\frac{3}{8}$</p>	<p>Day 2 - Operations with Decimals</p> <p>1. $5.23 \cdot 3.2 =$</p> <p>2. $5.13 \div 27 =$</p>
<p>Day 3 - Operations with Fractions</p> <p>1. $2\frac{1}{4} \cdot 2\frac{2}{3} =$</p> <p>2. $3\frac{1}{8} \cdot 1\frac{1}{4} =$</p>	<p>Day 4 - Expressions <i>Expand the expressions using the distributive property</i></p> <p>1. $4(2 + 3x)$</p> <p>2. $5(4 + 6x)$</p>
<p>Day 5 - Solving Equations</p> <p>1. $x + 2x + 3 = 15$</p> <p>2. $x + 6\frac{2}{3} = 11$</p>	<p>Day 6 - Potpourri <i>Write the prime factorization of each number</i></p> <p>36 54</p> <p style="text-align: center;"> </p>