

Welcome to Pre-Algebra 7

I thank you for your continued dedication to your studies through this past rollercoaster of a trimester. I want you to take some time to mentally and physically relax and enjoy the great weather ahead. However throughout the summer, we have to keep our math skills sharp; so I have attached 6 weeks of work for you to complete.

Your summer math review has 2 parts:

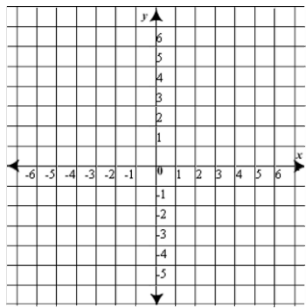
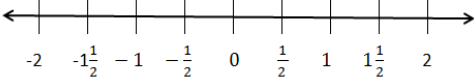
- 6 weeks of pencil and paper review problems
- and 30mins a week of IXL.
 - IXL skills to be practiced over the summer break are listed. You should also work on the recommendations listed on your dashboards from IXL.

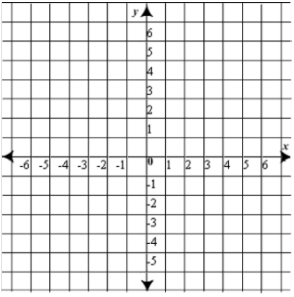
All math summer work is due on September 4th.

I look forward to seeing you all in September and hearing all about your summer activities.

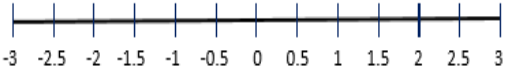
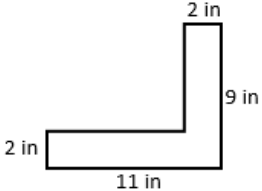
If you have any questions, please email me jclarke@saintroseschool.com

Have a great SUMMER!!

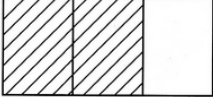
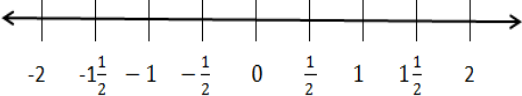
<p>1. Review</p> <p>Use Order of Operations to simplify.</p> $3^3 + 2[64 - (3 \times 7)]$	<p>2. Review</p> <p>Plot the following points to create a rectangle. Find the missing vertex. $(5,3)$; $(-5,3)$; $(-5,-1)$</p> 
<p>3. Review</p> <p>Jon places a point on a coordinate plane at $(-1, -12)$. He wants to place another point across the y-axis, and it must be 11 points. Where will Jon place the other point?</p>	<p>4. Review</p> <p>Fill in the Blank</p> <p>5.5 quarts = _____ pints</p>
<p>5. Review</p> <p>How long will it take you to ski a distance of 24 miles at a speed of 6 miles per 30 minutes?</p>	<p>6. Review</p> <p>Determine two numbers that have a product of 40 but have a sum of 13.</p>
<p>7. MCC.7.NS.1c</p> <p>Use the diagram below to find the solution to $1\frac{1}{2} - 3$ and place a point on your answer.</p> 	<p>8. MCC.7.NS.1c</p> <p>Simplify: $1.3 + (-6) + (-4.25) =$</p>

<p>1. Review</p> <p>Plot the following points to create a rectangle. Find the missing vertex. $(4,0)$; $(-6,0)$; $(-6,-4)$</p> 	<p>2. Review</p> <p>Steph places a point on a coordinate plane at $(3, -2)$. She wants to place another point across the x-axis, and it must be 7 units away. Where will Steph place the other point?</p>
<p>3. Review</p> <p style="text-align: center;">Fill in the Blank</p> <p style="text-align: center;">12 pints = _____ quarts</p>	<p>4. Review</p> <p>How long will it take you to bike a distance of 108 miles at a speed of 24 miles per hour?</p>
<p>5. Review</p> <p>What is the GCF of 44 and 20?</p>	<p>6. MCC.7.NS.1c</p> <p style="text-align: center;">Simplify</p> $16 - 1.42 + (-1.5)$
<p>7. MCC.7.NS2</p> <p style="text-align: center;">Multiply:</p> $\left(-\frac{3}{10}\right)\left(-\frac{2}{9}\right)$	<p>8. MCC.7.NS2</p> <p>A recipe for cake needs $2\frac{1}{4}$ cups of cake. You are making $\frac{1}{2}$ of the recipe. How many cups of flour do you need?</p>

<p>1. Review</p> <p>What is the LCM of 5 and 12?</p>	<p>2. Review</p> <p>At the bake sale, the students earned \$48.81. If there were 3 students, how much did each student earn?</p>			
<p>3. Review</p> <p>Solve.</p> <p>5^3 2.5^2</p>	<p>4. Review</p> <p>Notebooks cost \$1.20 each. This weekend they will be on sale for \$0.80. What percentage off of the original cost is the sale?</p>			
<p>5. MCC.7.NS.1</p> <p>The table shows a bank account balance for 2 days.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;">Balance</td> <td style="padding: 5px;">\$44</td> <td style="padding: 5px;">-\$28</td> </tr> </table> <p>How much did the bank account change over the two days?</p>	Balance	\$44	-\$28	<p>6. MCC.7.NS.2</p> <p>Simplify:</p> $-\frac{6}{5} \div 2\frac{2}{5}$
Balance	\$44	-\$28		
<p>7. MCC.7.NS.2d</p> <p>> , < , or =</p> $-\frac{26}{9} \text{ ——— } - 2.75$	<p>8. MCC.7NS.2d</p> <p>Simplify:</p> $\frac{8}{5} + 8.25$			

<p>1. Review</p> <p>Place the following numbers on the number line.</p> <p>-2.42, -0.8, 0.33, 1.23</p> 	<p>2. Review</p> <p>List 3 values that would make this inequality true.</p> $42 \leq y$ <p>_____, _____, _____</p>
<p>3. Review</p> <p>Find the area.</p> 	<p>4. MCC.7.NS.1</p> <p>Jon's weight loss for each week of the month is 5 lbs., 2.5 lbs., and 2.5 lbs. He gained 3.5 lbs. the last week. If Jon originally weighed 198 lbs., how much does he weigh now?</p>
<p>5. MCC.7.NS.2</p> <p>Multiply the following</p> $1\frac{5}{6} \cdot 2\frac{1}{3}$	<p>6. MCC.7.NS.2d</p> <p>Evaluate the expression. Write the answer as a decimal</p> $\left(\frac{2}{5} + 1\right) \times (6 - 2)$
<p>7. MCC.7.EE.4</p> <p>Solve the equation:</p> $16 = 2x - 6$	<p>8. MCC.7.EE.4</p> <p>To join a local gym, Ian has to pay a \$80 sign-up fee plus \$35 per month. Write an equation for the cost (y) based on the number of months (x).</p>

<p>1. Review</p> <p>A group of 150 dancers are auditioning for a dance show. 62% of the dancers trying out did not get on the show. How many dancers didn't get on the show?</p>	<p>2. Review</p> <p>Find the quotient.</p> $15\sqrt{28,395}$
<p>3. MCC.7.NS.1</p> <p>Subtract -14.2 from -5.3</p>	<p>4. MCC.7.NS.2</p> <p>Jim had \$2,052.24 in his checking account. He wrote a check to pay for two airplane tickets. His account now has \$1,084.12. How much did each ticket cost?</p>
<p>5. MCC.7.NS.2d</p> <p>Simplify:</p> $\frac{8}{10} + 6.25$	<p>6. MCC.7.EE.4</p> <p>Solve the equation:</p> $\frac{x}{2} - 5 = -12$
<p>7. MCC.7.EE.1</p> <p>Find the GCF of $14x$ and $18xy$</p>	<p>8. MCC.7.EE.1</p> <p>Circle the GCF of $22x^2y$ and $18xy^2$.</p> $22x^2y: 2 \cdot 11 \cdot x \cdot x \cdot y$ $18xy^2: 2 \cdot 3 \cdot 3 \cdot x \cdot y \cdot y$

<p>1. Review</p> <p>A class of 50 students in a P.E. class has dressed up for class. 38% of them have on white shirts. How many students have on white shirts?</p>	<p>2. MCC.7.NS.1</p> <p style="text-align: center;">Simplify</p> $-\frac{4}{5} + \left(-\frac{5}{3}\right) =$
<p>3. MCC.7.NS.2</p> <p>If you erased $\frac{1}{4}$ of the shaded part below. How much of the original figure will be shaded?</p> 	<p>4. MCC.7.NS.2d</p> <p>Place the following fractions on the number line.</p> $-\frac{6}{3}(a), \frac{18}{12}(b), \frac{5}{2}(c), -\frac{2}{2}(d)$ 
<p>5. MCC.7.EE.4</p> <p>Solve the equation:</p> $3(x - 4) = -21$	<p>6. MCC.7.EE.1</p> <p>Find the GCF of $16a$ and $32ab$.</p>
<p>7. MCC.7.EE.2</p> <p>Two sides of a rectangle are $x - 7$ and $2x + 1$. Write an expression that represents the perimeter of this rectangle.</p>	<p>8. MCC.7.EE.1</p> <p>Simplify the following expression:</p> $3(2w - 4y + 3) + 6w - 6$

Pre-Algebra 7 Summer IXL checklist of skills

When you log into IXL, under the search for skill enter the numbers and letter combo in parentheses or the common core standard indicated in bold to find these skills.



Search topics and skills



Welcome, ..

7.RP.A.1 Compute unit rates associated with ratios of fractions including ratios of length area other quantities measured in like or different units.

calculate unit rates with fractions

unit price

7.RP.A.2a Identify equivalent ratios, equivalent ratio word problems, do the ratios form a proportion?, do the ratios form a proportion word problems, identify proportional Relationships by graphing, then if I proportional relationships from graphs and equations, identify proportional relationships from tables.

7.NS.A.1a Describe situations in which opposite quantities combine to make zero.

absolute value and opposite integers

quantities that combine to zero: word problems

7.NS.A.1b Interpret sums of rational numbers by describing real-world context

Integer addition rule, add integers using number lines, integer addition and subtraction rules, apply addition and subtraction rules.

7.NS.A.1d Apply properties of operations as strategies to add and subtract rational numbers

7.NS.A.2c Apply properties of operations as strategies to multiply and divide rational numbers

7.NS.A.2d Convert a rational number to a decimal using long division; know the decimal form of a rational number terminate in 0s or eventually repeat

7.EE.A.1 Apply properties of operations as strategies to add, subtract, Factor, and expand linear expressions with rational coefficients.

Multiply using the distributive property (7-R.11)

Write equivalent expressions using properties (7-R.13)

Add and subtract linear expressions (7-R.14)

Identify equivalent linear expression word problems (7-R.4)