

## Summer Math Choice Boards: Entering 6th Grade

\*Choose 4 of the following options to complete this summer.

<p style="text-align: center;"><b>Cooking with Fractions!</b></p> <p>Make a cake or other fun treat with your family. How much would you need of each ingredient if you make 1 ½ times the recipe?</p>	<p style="text-align: center;"><b>Go out to dinner with your family!</b></p> <p>If you were to split the bill equally between each person in your family, how much would each person pay? How do you know?</p>	<p style="text-align: center;"><b>Grocery Shopping!</b></p> <p>Go grocery shopping with your parents. Choose 3 items on the list and find the unit price for each item.</p>												
<p style="text-align: center;"><b>Make a Geometry Village!</b></p> <p>Create a village (or town) on a poster board. In this village or town, you need to include each of the following requirements:</p> <ul style="list-style-type: none"> <li>• 8 Different Quadrilaterals</li> <li>• 5 Different Circles</li> <li>• 1 Example of Perimeter (with formula)</li> <li>• 1 Example of Circumference (with formula)</li> <li>• 1 Example of Area (with formula)</li> </ul>	<p style="text-align: center;"><b>Buying a Carpet!</b></p> <p>If you were to buy a carpet that completely covered the floor of your room, what would its area be in square feet? How did you figure it out?</p>	<p style="text-align: center;"><b>Computation Problems:</b></p> <p>Select 8 of these 12 problems to complete (4 multiplication and 4 division):</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tbody> <tr> <td><math>\frac{1}{4} \cdot \frac{1}{2} = ?</math></td> <td><math>\frac{1}{4} \cdot \frac{1}{3} = ?</math></td> </tr> <tr> <td><math>\frac{3}{8} \cdot \frac{1}{3} = ?</math></td> <td><math>\frac{2}{5} \cdot \frac{1}{6} = ?</math></td> </tr> <tr> <td><math>\frac{2}{7} \cdot \frac{1}{9} = ?</math></td> <td><math>\frac{7}{9} \cdot \frac{1}{2} = ?</math></td> </tr> <tr> <td><math>\frac{11}{12} \div \frac{1}{3} = ?</math></td> <td><math>\frac{5}{6} \div \frac{6}{3} = ?</math></td> </tr> <tr> <td><math>\frac{4}{6} \div \frac{1}{6} = ?</math></td> <td><math>\frac{3}{4} \div \frac{4}{3} = ?</math></td> </tr> <tr> <td><math>\frac{4}{23} \div \frac{2}{1} = ?</math></td> <td><math>\frac{4}{9} \div \frac{2}{3} = ?</math></td> </tr> </tbody> </table>	$\frac{1}{4} \cdot \frac{1}{2} = ?$	$\frac{1}{4} \cdot \frac{1}{3} = ?$	$\frac{3}{8} \cdot \frac{1}{3} = ?$	$\frac{2}{5} \cdot \frac{1}{6} = ?$	$\frac{2}{7} \cdot \frac{1}{9} = ?$	$\frac{7}{9} \cdot \frac{1}{2} = ?$	$\frac{11}{12} \div \frac{1}{3} = ?$	$\frac{5}{6} \div \frac{6}{3} = ?$	$\frac{4}{6} \div \frac{1}{6} = ?$	$\frac{3}{4} \div \frac{4}{3} = ?$	$\frac{4}{23} \div \frac{2}{1} = ?$	$\frac{4}{9} \div \frac{2}{3} = ?$
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<p style="text-align: center;"><b>Math is Everywhere!</b></p> <p>Identify 3 different ways Math was involved in your life this summer.</p> <p>1)</p> <p>2)</p> <p>3)</p>	<p style="text-align: center;"><b>Math in Nature!</b></p> <p>Find and take a picture of 3 different geometric figures you find in nature. List what they are here and attach pictures.</p> <p>1)</p> <p>2)</p> <p>3)</p>	<p style="text-align: center;"><b>Decimals with Money!</b></p> <p>Go to any store of your choosing. Buy 10 items and add up the total amount of money you spent on your purchases.</p>												

## Summer Math Choice Boards: Entering 7th Grade

\*Choose 4 of the following options to complete this summer.

<p style="text-align: center;"><b>Cooking with Fractions!</b></p> <p>Make a cake or other fun treat with your family. How much would you need of each ingredient if you make <math>2\frac{1}{4}</math> times the recipe?</p>	<p style="text-align: center;"><b>Grocery Shopping!</b></p> <p>Go grocery shopping with your parents. Choose 4 items on the list and find the unit price for each item.</p>	<p style="text-align: center;"><b>Go out to dinner with your family!</b></p> <p>If you were to split the bill equally between each person in your family, how much would each person pay?</p> <p>If you left a 10% tip on the total bill, how much would that be?</p>																				
<p style="text-align: center;"><b>Make a Geometry Village!</b></p> <p>Create a village (or town) on a poster board. In this village or town, you need to include each of the following requirements:</p> <ul style="list-style-type: none"> <li>● 10 Different Quadrilaterals</li> <li>● 6 Different Circles</li> <li>● 2 Examples of Perimeter (with formula)</li> <li>● 2 Examples of Circumference (with formula)</li> <li>● 2 Examples of Area (with formula)</li> </ul>	<p style="text-align: center;"><b>Computation Problems:</b></p> <p>Select 8 of the 12 problems below to complete (2 of each operation):</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tbody> <tr> <td style="padding: 5px;"><math>\\$28.35 \div 9 = ?</math></td> <td style="padding: 5px;"><math>10.2 - 7.8 = ?</math></td> </tr> <tr> <td style="padding: 5px;"><math>9.3 \cdot 10 = ?</math></td> <td style="padding: 5px;"><math>6,452 \div 4 = ?</math></td> </tr> <tr> <td style="padding: 5px;"><math>10.47 + 0.78 = ?</math></td> <td style="padding: 5px;"><math>2.32 + 3.5 = ?</math></td> </tr> <tr> <td style="padding: 5px;"><math>8.56 \cdot 100 = ?</math></td> <td style="padding: 5px;"><math>9.8 \div 10 = ?</math></td> </tr> <tr> <td style="padding: 5px;"><math>36.59 + 29.2 = ?</math></td> <td style="padding: 5px;"><math>36.59 - 29.2 = ?</math></td> </tr> <tr> <td style="padding: 5px;"><math>5.678 \cdot 100 = ?</math></td> <td style="padding: 5px;"><math>12.6 \div 3 = ?</math></td> </tr> </tbody> </table>	$\$28.35 \div 9 = ?$	$10.2 - 7.8 = ?$	$9.3 \cdot 10 = ?$	$6,452 \div 4 = ?$	$10.47 + 0.78 = ?$	$2.32 + 3.5 = ?$	$8.56 \cdot 100 = ?$	$9.8 \div 10 = ?$	$36.59 + 29.2 = ?$	$36.59 - 29.2 = ?$	$5.678 \cdot 100 = ?$	$12.6 \div 3 = ?$	<p style="text-align: center;"><b>Painting a Wall!</b></p> <p>If you were to paint one wall of your room (but not the windows), what would its area be in square feet? How did you figure it out?</p>								
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<p style="text-align: center;"><b>Ratios</b></p> <p>Which two teams have the equivalent ratios of walks to number of runs scored?</p> <p>Write each ratio in simplest form.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="padding: 5px;">Team</th> <th style="padding: 5px;">Walks</th> <th style="padding: 5px;">Runs Scored</th> <th style="padding: 5px;">Ratio</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Red Sox</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">40</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Cubs</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">32</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Marlins</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">17</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Yankees</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">34</td> <td style="padding: 5px;"></td> </tr> </tbody> </table>	Team	Walks	Runs Scored	Ratio	Red Sox	5	40		Cubs	4	32		Marlins	2	17		Yankees	4	34		<p style="text-align: center;"><b>Math is Everywhere!</b></p> <p>Identify 4 different ways Math was involved in your life this summer.</p> <ol style="list-style-type: none"> <li>1)</li> <li>2)</li> <li>3)</li> <li>4)</li> </ol>	<p style="text-align: center;"><b>Geometry in Nature!</b></p> <p>Find and take a picture of 4 different geometric figures you find in nature. List what they are here and attach pictures.</p> <ol style="list-style-type: none"> <li>1)</li> <li>2)</li> <li>3)</li> <li>4)</li> </ol>
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## Summer Math Choice Boards: Entering 8th Grade

\*Choose 4 of the following options to complete this summer.

<p style="text-align: center;"><b>Cooking with Fractions!</b></p> <p>Make a cake or other fun treat with your family. How much would you need of each ingredient if you make <math>3\frac{1}{8}</math> times the recipe?</p>	<p style="text-align: center;"><b>Grocery Shopping!</b></p> <p>Go grocery shopping with your parents. Choose 5 items on the list and find the unit price for each item.</p>	<p style="text-align: center;"><b>Go out to dinner with your family!</b></p> <p>If you were to split the bill equally between each person in your family, how much would each person pay?</p> <p>MA sales tax is 7%, if this was applied to your bill, how much would your total bill be?</p> <p>If you left a 15% tip on the total bill, how much would that be?</p>												
<p style="text-align: center;"><b>Make a Geometry Village!</b></p> <p>Create a village (or town) on a poster board. In this village or town, you need to include each of the following requirements:</p> <ul style="list-style-type: none"> <li>● 12 Different Quadrilaterals</li> <li>● 8 Different Circles</li> <li>● 3 Examples of Perimeter (with formula)</li> <li>● 3 Examples of Circumference (with formula)</li> <li>● 3 Examples of Area (with formula)</li> </ul>	<p style="text-align: center;"><b>Pies and Conversions!</b></p> <p>If Mrs. Heintz eats 76% of a blueberry pie, how much of the pie would she eat if the percent is converted to:</p> <ul style="list-style-type: none"> <li>● A fraction?</li> <li>● A decimal?</li> </ul> <p>Convert the 76% into a fraction and a decimal. How did you arrive at your answer?</p>	<p style="text-align: center;"><b>Painting Your Walls</b></p> <p>If you were to paint all of the walls of your room (but not the windows or doors), what would its area be in square feet? How did you figure it out?</p>												
<p style="text-align: center;"><b>Computation Problems</b></p> <p>Select 8 of the 12 problems below to complete (2 of each operation).</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tbody> <tr> <td><math>7 + 12 = ?</math></td> <td><math>-12 + -14 = ?</math></td> </tr> <tr> <td><math>34 \cdot 5 = ?</math></td> <td><math>-61 \cdot 3 = ?</math></td> </tr> <tr> <td><math>-8 - 5 = ?</math></td> <td><math>45 - (-7) = ?</math></td> </tr> <tr> <td><math>78 \div 3 = ?</math></td> <td><math>-234 \div -7 = ?</math></td> </tr> <tr> <td><math>17 + -8 = ?</math></td> <td><math>91 - 28 = ?</math></td> </tr> <tr> <td><math>163 \cdot -4 = ?</math></td> <td><math>1,025 \div -5 = ?</math></td> </tr> </tbody> </table>	$7 + 12 = ?$	$-12 + -14 = ?$	$34 \cdot 5 = ?$	$-61 \cdot 3 = ?$	$-8 - 5 = ?$	$45 - (-7) = ?$	$78 \div 3 = ?$	$-234 \div -7 = ?$	$17 + -8 = ?$	$91 - 28 = ?$	$163 \cdot -4 = ?$	$1,025 \div -5 = ?$	<p style="text-align: center;"><b>Geometry in Nature!</b></p> <p>Find and take a picture of 5 different geometric figures you find in nature. List what they are here and attach pictures.</p> <p>1)</p> <p>2)</p> <p>3)</p> <p>4)</p> <p>5)</p>	<p style="text-align: center;"><b>Math is Everywhere!</b></p> <p>Identify 5 different ways Math was involved in your life this summer.</p> <p>1)</p> <p>2)</p> <p>3)</p> <p>4)</p> <p>5)</p>
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