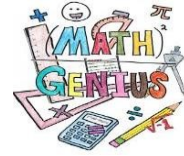
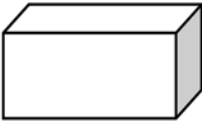
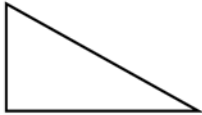


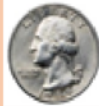
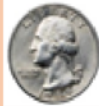
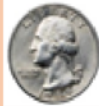



# Grade 6 Math Board



**Choose at least 1 activity from the board each day. When you complete the activity, color in the square. Try to get Tic-Tac-Toe, 3 in a row or complete the entire board and color in the whole board. Have fun!**

<p>1. <b>Find</b> at least 2 different rectangular prisms in your house. <b>Determine</b> the volume of each. <b>Compare</b> the volume of each of your rectangular prism. <b>Analyze</b> the differences among the rectangular prisms and <b>summarize</b> your findings.</p> <p><math>(V = l \times w \times h)</math></p> <div style="text-align: center;">  </div>	<p>2. <b>Create</b> a table with four columns. <b>Label</b> the columns with: Activity; Estimated Time; Actual Time; Actual Time in Seconds. <b>Estimate</b> and <b>record</b> how long you think it will take you to do the following tasks:</p> <ul style="list-style-type: none"> <li>• Read one page of your favorite book or magazine.</li> <li>• Touch your toes 50 times</li> <li>• Write the alphabet in cursive</li> <li>• Stand/balance on one foot</li> </ul> <p><b>Perform</b> each of the tasks while timing yourself with a stopwatch. <b>Record</b> the actual time taken to do each task.</p> <p><b>Convert</b> each Actual Time to seconds.</p>	<p>3. <b>Plan</b> and <b>design</b> a map of an amusement park or playground using angles and geometric shapes. Include all parts of a map (title, key, compass rose, author, date). The following measurements must be included: 30°, 45°, 70°, 75°, 115°, 140°, 165°, and 180°. <b>Label</b> the measure of each angle. <b>Write</b> a description of your design.</p> <div style="text-align: center;">  </div>				
<p>4. Find a favorite recipe. Which ingredients do you need the most of? Which ingredients do you need the least? Write a list of your ingredients from GREATEST to LEAST.</p> <p>Double your recipe and write down the amount of ingredients you need.</p> <div style="text-align: center;">  </div>	<p>5. <b>Plan</b> and <b>design</b> a treasure map using your home. <b>Select</b> an ending point (such as your bedroom, kitchen, or living room). <b>Determine</b> the starting point. <b>Devise</b> directions using measurements as part of the instructions. (For example: Start at the EXIT door and walk 1 1/8 meters, turn left and walk forward 2 1/3 yards...) Include the following: inches, feet, yards, millimeters, centimeters, meters</p> <div style="text-align: center;">  </div>	<p>6. Which one doesn't belong? Explain</p> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; width: 150px; height: 100px;"> <tbody> <tr> <td style="text-align: center; vertical-align: middle; font-size: 24px;"><b>0.25</b></td> <td style="text-align: center; vertical-align: middle; font-size: 24px;"><math>\frac{1}{4}</math></td> </tr> <tr> <td style="text-align: center; vertical-align: middle;"><b>25 minutes</b></td> <td style="text-align: center; vertical-align: middle;"></td> </tr> </tbody> </table> </div>	<b>0.25</b>	$\frac{1}{4}$	<b>25 minutes</b>	
<b>0.25</b>	$\frac{1}{4}$					
<b>25 minutes</b>						
<p>7. <b>Locate</b> at least 10 decimals and/or mixed numbers in the newspaper (prices, weights, sports statistics). <b>Construct</b> a number line to <b>position</b> the decimals and fractions that you found. Be sure to use an appropriate scale.</p>	<p>8. <b>Model</b> the following equation using manipulatives (<i>Hands-on Equations kit or counters</i>): <math>4X + 2 = X + 14</math> <b>Illustrate</b> or <b>explain</b> in writing the steps used to solve this equation. <b>Create</b> at least 2 more equations to solve. <b>Solve</b> each equation using manipulatives and illustrations.</p> <div style="text-align: center;">  </div>	<p>9. <b>Develop</b> a booklet to teach kindergarten students about basic measurement. Include the following:</p> <ul style="list-style-type: none"> <li>• ruler (inch, foot, yard, millimeter, centimeter and meter)</li> <li>• scale (ounce, pound, gram)</li> <li>• liquid measuring devices (ounce, <b>pint cup, quart, gallon, and liter</b>) Include simple illustrations and descriptions, keeping your young audience in mind.</li> </ul>				

## **Resource Page**

### **Grade 6 Mathematics Extension Menu**

**Concept and/or Topic: Measurement**

**Intended Purpose: Enrichment Activity**

**Domain: Measurement and Data/Operations in Algebraic Thinking**

**Standards Addressed:**

**Box 1**

5.MD.5: Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

**Boxes 2 6, and 7**

5.MD.1: Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step real world problems.  
Mathematical Practice #9: Solve problems in novel ways and pose new mathematical questions of interest to investigate.

**Box 3**

5.G.4: Classify two-dimensional figures in a hierarchy based on properties. Introduce protractor and measurement of angles (Grade 7).

**Boxes 4, 5, and 9**

5.MD.1: Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step real world problems.  
Mathematical Practice #9: Solve problems in novel ways and pose new mathematical questions of interest to investigate.

**Box 8**

5.OA.2 Write simple expressions that record calculations with numbers and interpret numerical expressions without evaluating them.