**Math Choice Menu Homework**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Due Monday, February 8, 2016*

Choose **3** out of the 6 following options from the choice menu below. Circle your **3** choices and staple your work to this paper.

**You must choose options 1 or 4 this week**

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| ***Choice 1: Plotting points on a coordinate plane****[CCSS.MATH.CONTENT.6.G.A.3](http://www.corestandards.org/Math/Content/6/G/A/3/)Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.*Develop a picture that would involve plotting triangles and/or quadrilaterals on a coordinate plane. Give the X and Y axis so someone would be able to solve it.  | ***Choice 2: Volume of Rectangular prisms***[CCSS.MATH.CONTENT.6.G.A.2](http://www.corestandards.org/Math/Content/6/G/A/2/)Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas *V = l w h* and *V = b h* to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. Come up with and solve ten problems involving finding the volume of a rectangular prism.  | ***Choice 3: Stride Academy***Log on to Stride Academy and practice math skills for at least 20 minutes every night. This should equate to 140 minutes (2 hours and 20 minutes) total for the week. Have a parent/guardian sign below that you did the work. *Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |
| ***Choice 4: Create a coordinate plane poster*** [*CCSS.MATH.CONTENT.6.G.A.3*](http://www.corestandards.org/Math/Content/6/G/A/3/)*Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.*Create a poster that would explain to someone how to plot points on a coordinate plan who has never before seen the material.  | ***Choice 5: Working with exponents REVIEW****[CCSS.MATH.CONTENT.6.EE.A.1](http://www.corestandards.org/Math/Content/6/EE/A/1/)Write and evaluate numerical expressions involving whole-number exponents.*Come up with and solve at least 20 equations involving exponents.  | ***Choice 6: Working with area of triangles REVIEW****[CCSS.MATH.CONTENT.6.G.A.1](http://www.corestandards.org/Math/Content/6/G/A/1/)Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.*Come up with and solve ten problems involving finding the area of a triangle.  |