Name_________________________________________Date________________

Mathematics Grade 2
Classroom Assessments Based on Standards (MMP 07/06)

MPS Learning Target: Geometry
- Describe and compare properties (e.g., sides, faces, corners, edges) of two- and three-dimensional shapes, and represent figures on a simple coordinate system.
- Predict the results of combining and decomposing shapes, and recognize and apply slides, flips, and turns to two-dimensional shapes.

Use a word from the box to complete the problem.

cube          cone          cylinder          pyramid

1.) □ This shape is a _____________________________.

2.) □ This shape is a _____________________________.

3.) Which figure has 5 sides and 5 angles? Circle it.

4.) Name and color the plane figure being described.
   - I have 4 sides and 4 corners.
   - Two of my sides are parallel.
   - The other two are also parallel.
   - What am I?

   I am a ____________________________.
5.) Circle the ‘hexagon’ and tell how many sides it has.

   _______ sides

6.) Circle the ‘trapezoid’ and tell how many angles it has.

   _______ angles

7.) Circle the ‘circle’ and tell how many sides and angles it has.

   _______ sides   _______ angles
8.) Divide each figure into squares and triangles.

Ex.

\[ \underline{1} \text{triangle(s) } \underline{1} \text{square(s)} \]

\[ \text{a. } \quad \underline{\_\_\_} \text{triangle(s) } \underline{\_\_\_} \text{square(s)} \]

\[ \text{b. } \quad \underline{\_\_\_} \text{triangle(s) } \underline{\_\_\_} \text{square(s)} \]

9.) Inside each box the black wagon was moved. Choose a word to describe how it was moved.

slide flip turn
Name each solid figure.
Write how many faces, vertices, and edges there are for each one.

<table>
<thead>
<tr>
<th>Solid Figure</th>
<th>Name</th>
<th>Faces</th>
<th>Vertices</th>
<th>Edges</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.)</td>
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<td>11.)</td>
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<td>12.)</td>
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</tbody>
</table>

13.) What plane figure will you make if you trace the bottom of the solid figure in the box? Circle it. Then tell how many sides or angles are in the plane figure.

a. [Diagram of rectangular prism]
   - [Diagram of circle]
   - [Diagram of triangle]
   - [Diagram of rectangle]
   
   ________ sides

b. [Diagram of cylinder]
   - [Diagram of square]
   - [Diagram of oval]
   - [Diagram of triangle]
   
   ________ angles
<table>
<thead>
<tr>
<th>Use these pattern blocks.</th>
<th>Make a known figure. Sides must meet completely.</th>
<th>How many sides on the new figure?</th>
<th>How many angles on the new figure?</th>
<th>Name of new figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.)</td>
<td><img src="image" alt="Hexagon" /></td>
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<tr>
<td>15.)</td>
<td><img src="image" alt="Triangles" /></td>
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</tbody>
</table>

16.) How many pattern block green triangles are required to make a yellow hexagon?