1.) Study the three-dimensional shape below to complete the chart.

![Three-dimensional shape](image)

<table>
<thead>
<tr>
<th>Number of</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>faces</td>
<td></td>
</tr>
<tr>
<td>edges</td>
<td></td>
</tr>
<tr>
<td>vertices</td>
<td></td>
</tr>
</tbody>
</table>
2.) Use the objects in the box to answer questions A through C.

<table>
<thead>
<tr>
<th>Shape A</th>
<th>Shape B</th>
<th>Shape C</th>
<th>Shape D</th>
<th>Shape E</th>
</tr>
</thead>
</table>

A.) Which shape is a rectangular prism? _____________
B.) Which of these objects is a cylinder? _____________
C.) Which of these items is in the shape of a cube? _____________
D.) In the box below, draw and label an example of a real-world object that is in the shape of a sphere.
3a.) According to the map below, which streets are parallel to each other?

- Park and Main
- Tyler and Maple
- Park and Tyler
- Main and Tyler

3b.) Explain how you know these streets are parallel.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

3c.) According to the map in the figure above, which streets appear to be perpendicular to each other?

- Maple and Main
- Tyler and Maple
- Park and Tyler
- Park and Main

3d.) Explain how you know these streets are perpendicular.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
4a.) Circle the pattern that can be folded to make a pyramid.

4b.) How did you figure out the pattern? Explain your reasoning with words.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

5.) Which of the following could NOT be folded into a cube? Circle the correct answer.

Explain your thinking.

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________
6.) Study each set of objects below. Tell if the object was moved using a flip, slide, or a turn.

A. ____________        B. _____________       C. _____________

7.) Look at the four shapes below.

Shape A                          Shape B             Shape C           Shape D

Step A
Which of these two shapes are congruent? ________________

Step B
Using mathematical vocabulary, explain how you know that these shapes are congruent.

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

Developed by the Milwaukee Mathematics Partnership (MMP) with support by the National Science Foundation under Grant No. 0314898.
8.) Point A is shown on the grid below.

A.) What are the coordinates of Point A? _________

B.) On the same grid, draw a point with coordinates (2,8) and label the point B.

C.) One the same grid, draw a point with coordinates (7,8) and label it point C.

D.) Look at the three points on the grid. What are the coordinates you would use for point D to make the final corner of a rectangle? ________

E.) Plot and label point D on the grid. Connect the points to make a rectangle.