1. Which of the following composite shapes has $900^\circ$ as the sum of its interior angles?

2. Four streets are pictured.

What is the value of $x$?

   a $60^\circ$
   b $80^\circ$
   c $100^\circ$
   d $110^\circ$

3. Consider the diagram below.

What is the value of $x$?

   a $61^\circ$
   b $68^\circ$
   c $112^\circ$
   d $119^\circ$

4. The following figure is a 15-sided regular polygon.

What is the value of $x$ shown in the diagram?

   a $24^\circ$
   b $34^\circ$
   c $46^\circ$
   d $48^\circ$
1. **A Schoolyard**

A schoolyard is in the shape of a regular decagon, as pictured below.

![Decagon Diagram](image)

Complete the chart below with the values of $x$ and $y$. Justify your answers using geometric properties.

<table>
<thead>
<tr>
<th>Value</th>
<th>Justification using geometric properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>$x =$</td>
<td></td>
</tr>
<tr>
<td>$y =$</td>
<td></td>
</tr>
</tbody>
</table>