**Tree Age Equation**

We all know you can count the rings inside the trunk to determine a tree's age, but how do we determine the age of a tree if we don’t want to cut it down? There is a simple formula you can use to do just that.

1. Find a tree that you want to know the age of. Make sure it is a tree that is listed in the Growth Factor table below.

2. Measure the **circumference** (in inches) of the tree trunk at eye-level. Record that number here:
   
   Circumference = ________ Inches

3. Determine the **diameter** of the trunk by dividing the circumference by 3.14. Record that number here:
   
   Circumference/3.14 = ________ Inches

4. Multiply the diameter by the growth factor for its species in the table below. That number is the tree's age!
   
   Diameter x Growth Factor = ________ Years Old!

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<table>
<thead>
<tr>
<th>Tree Species</th>
<th>Growth Factor</th>
<th>Tree Species</th>
<th>Growth Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Maple</td>
<td>4.5</td>
<td>White Oak</td>
<td>5.0</td>
</tr>
<tr>
<td>Silver Maple</td>
<td>3.0</td>
<td>Red Oak</td>
<td>4.0</td>
</tr>
<tr>
<td>Sugar Maple</td>
<td>5.0</td>
<td>Pin Oak</td>
<td>3.0</td>
</tr>
<tr>
<td>River Birch</td>
<td>3.5</td>
<td>Linden or Basswood</td>
<td>3.0</td>
</tr>
<tr>
<td>White Birch</td>
<td>5.0</td>
<td>American Elm</td>
<td>4.0</td>
</tr>
<tr>
<td>Shagbark Hickory</td>
<td>7.5</td>
<td>Ironwood</td>
<td>7.0</td>
</tr>
<tr>
<td>Green Ash</td>
<td>4.0</td>
<td>Cottonwood</td>
<td>2.0</td>
</tr>
<tr>
<td>Black Walnut</td>
<td>4.5</td>
<td>Dogwood</td>
<td>7.0</td>
</tr>
<tr>
<td>Black Cherry</td>
<td>5.0</td>
<td>Redbud</td>
<td>7.0</td>
</tr>
</tbody>
</table>