MFM2PI – *Unit 8: Geometry – Lesson 3*  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Perimeter and Area**

1. **What is Perimeter?**

**Perimeter** is the distance around the outside of a shape. In terms of mathematics, it is the **sum** of all the exterior lines that compose a shape. Most of the “formulas” for determining perimeter are as straightforward as adding all the shape’s side lengths together. For the most part, we’re not going to focus much on perimeter. However, there is one exception: the circle.

The circle actually has a special word for its perimeter:  
  
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  
  
it is calculated using the following formula(s):  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Let’s determine the circumference of the circles  
to the right! Don’t forget to include the units!

***C = \_\_\_\_\_\_\_\_\_\_\_\_ C =\_\_\_\_\_\_\_\_\_\_\_\_***

1. **What is Area?**

**Area** is the 2-dimensional space contained within a shape. Unlike perimeter, there a number of different methods for calculating area, but a summary for each shape appears on the formula sheet. Let’s try some examples!  
  
*Calculate the area of the following shapes. Don’t forget to include the proper units!*

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**HW: *Unit 8 Lesson 3 Worksheet***