6.8 A: The student is expected to estimate measurements (including circumference) and evaluate reasonableness of results.
7.9 A: The student is expected to estimate measurements and solve application problems involving length (including perimeter and circumference) and area of polygons and other shapes.

Moon Pies

1. Using unmarked string, try to figure out how many times the distance across a moon pie will fit around its perimeter.

   - Do you think the relationship you found is true for every circle in the universe? _____

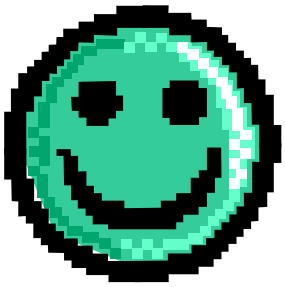
   - What do we call the **"distance across the disc"** and its **"perimeter"?**

   _____ and
   _____

2. Use the vinyl measuring tape and measure the diameter and the circumference of the moon pie.

   Diameter: _____ Circumference: _____

You may unwrap the moon pie and eat it now!
Yum, Yum!!!!!!!!!!!!



6.8 A: The student is expected to estimate measurements (including circumference) and evaluate reasonableness of results.
7.9 A: The student is expected to estimate measurements and solve application problems involving length (including perimeter and circumference) and area of polygons and other shapes.

Moon Pies

3. Working with a partner, measure the circumference and diameter of each of the provided objects to the nearest millimeter. Record your results in the chart below.

Object Measured	**Circumference**	**Diameter**	**$\frac{\text{Circumference}}{\text{Diameter}}$**
Average =			

4. What do you notice about the relationship between the circumference and diameter of a set of circles?

5. Use a calculator to figure out how many diameters fit into each circumference. Round these numbers to the hundredths place.

6.8 A: The student is expected to estimate measurements (including circumference) and evaluate reasonableness of results.
7.9 A: The student is expected to estimate measurements and solve application problems involving length (including perimeter and circumference) and area of polygons and other shapes.

Moon Pies

6. The relationship between circumference and diameter is called **a ratio.**

7. Any diameter fits into the circumference a little more than _____ times.

8. A more exact number for this ratio is called pi (π), which is rounded for common use to _____.

9. How could we figure out the diameter if we know the circumference?

10. How could we get the circumference if we know the diameter?