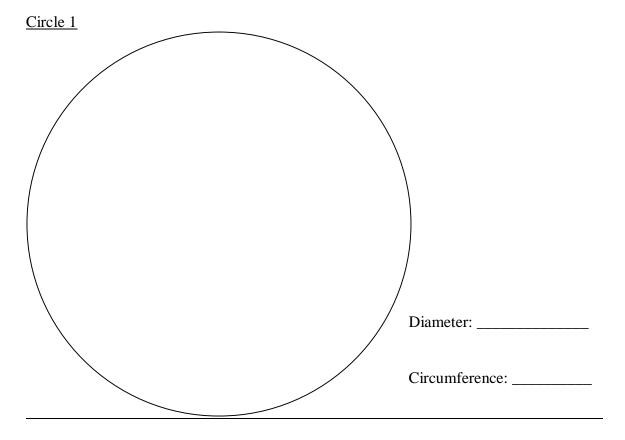
Name:	Date:	Class:	

Let's Take a Slice of Pi

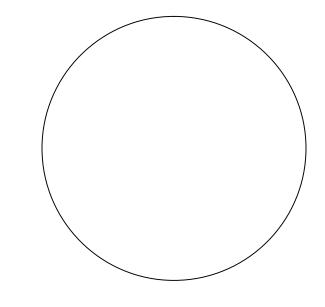
Pi Pre-Activity Worksheet

Materials needed:

- Ruler
- Pencil
- Yarn
- Scissors
- Markers
- Calculator
- 1. Measure the *diameter* of each of the three circles below in centimeters and record the values.
- 2. Measure the *circumference* of each circle by following the steps below:
 - a. Take a piece of yarn and place the end of the yarn right on top of the circle and wrap the yarn around the entire circle perimeter.
 - b. Mark the endpoint (where the yarn meets its end at the top of the circle) with a dark colored marker.
 - c. Pick up the yarn after ito been marked, straighten it and cut if off where the endpoint is marked. This should give you the *circumference* of the circle.
 - d. Measure the piece of yarn with a ruler (remember to use the *centimeters* scale) and record this value.



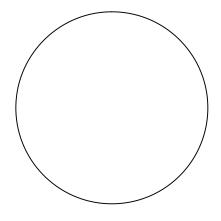
Circle 2



Diameter: _____

Circumference: _____

Circle 3



Diameter: _____

Circumference: _____

Let's calculate Pi, π !

Recall that Pi is equal to the circumferen	ce of a circle divided by the	diameter of that circle, so:
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Pi = circumference / diameter

For each of the circles above, use the values you measured and recorded to perform the above equation to find Pi.

(1)	Circle 1:						
]	Pi =	=	cm /	_ cm			
(2)	Circle 2:						
]	Pi =	=	cm /	_ cm			
(3)	Circle 3:						
]	Pi =	=	cm /	_ cm			
Conclusion:							
(1) Do the calculated values of Pi for all three circles match? [Yes (very close) or No]. Explain your answer.							
(2) Take an average of the 3 Pi values (sum of all 3 pi values divided by 3):							
(3) Is the average Pi value close to the accepted value of 3.1415í ? Explain.							