

Name: _____

Core: _____

Pi Homework
Due Thursday, March 15th

Notes for homework:

Radius is _____ the diameter. Diameter is _____ the radius.

To find circumference, multiply _____ x _____.

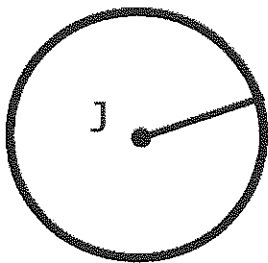
To find area, you multiply the _____ x _____ x _____.

First 8 digits of Pi: _____

Round Pi to the nearest hundredth: _____ ← Use this approximation of Pi

Find the area and circumference of the following circles. You can use a calculator.
Round your answer to the hundredths place and you may use $\pi \approx 3.14$

1.

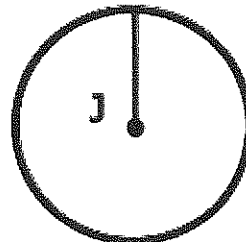


$J = 35$ yd

Area = _____

Circumference = _____

2.

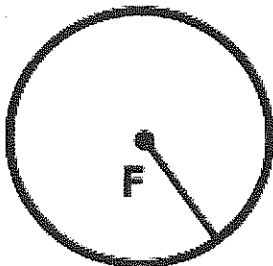


$J = 8$ ft

Area = _____

Circumference = _____

3.

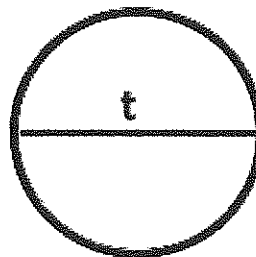


$F = 21$ m

Area = _____

Circumference = _____

4.



$t = 6$ yd

Area = _____

Circumference = _____

Pi is the ratio of circle's circumference to its diameter.

We can discover it just like ancient mathematicians.

Steps to fill in the table below:

1. Find 3 different objects that are in a shape of a circle. Different size cups and cans, for example.
2. Write down the name of the object in the table below. Measure the circumference – the length around the circle – using the paper ruler stapled to the homework. Write circumference in table.
3. Measure the diameter – the length across the circle through the middle – using the paper ruler on the homework. Write diameter in the table.
4. Write the ratio of c to d as a fraction – circumference on top, diameter on bottom.
5. Find the ratio of c to d as a decimal – divide the circumference by the diameter.

Object Name	Circumference {c}	Diameter {d}	Ratio of c to d -written as a fraction	Ratio of c to d -Written as a decimal

What did you notice about all of the decimals in the last column?

Were your decimal answers close to Pi? How could you improve this activity to make your decimal answers closer to Pi?

The first 100 digits of Pi:

**3.1415926535 8979323846 2643383279 5028841971 6939937510
5820974944 5923078164 0628620899 8628034825 3421170679**

Happy National Pi Day

Letter Mix Up

How many words can you make from the letters in the words **HAPPY NATIONAL PI DAY**?

Write down all the words you can find in the table below.

3 Letter Words		4 Letter Words		5+ Letter Words	

Scoring:

Give yourself 1 point for each 3-letter word.

Give yourself 2 points for each 4-letter word.

Give yourself 3 points for each word with 5 or more letters.

Total points: _____

The students with the Top 3 Total Points in each class will get a Pi Prize!

