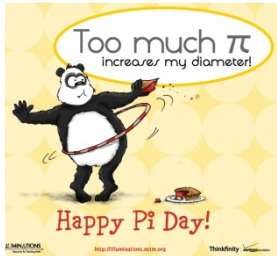
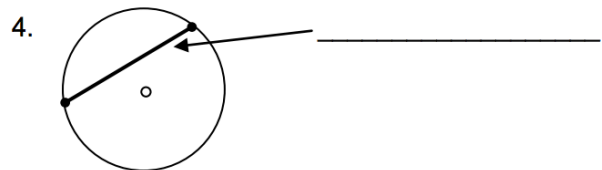
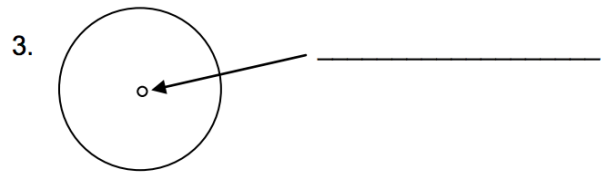
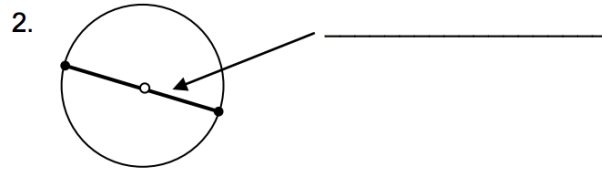
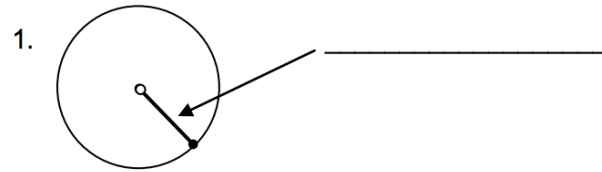


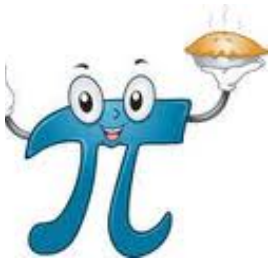
Name _____

Use the words in the Word Bank to label each picture or description.
Words may be used more than once.

Word Bank
chord
diameter
circumference
radius
center



5. Measure the diameter of your little pie, using your ruler. Write it here.



6. Measure the circumference of your little pie, using your string. Write it here.

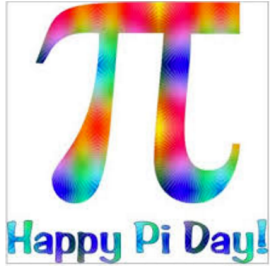
7. Divide the circumference by the diameter. What do you get? Write it here.



Now eat your pie!!

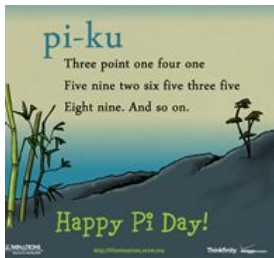


8. Ask three students around you what they got. Write their results here. Are the results common? Are they close to each other?



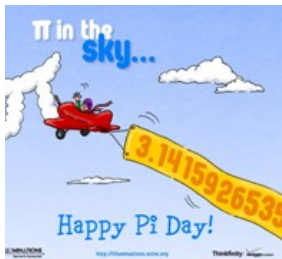
9. Explain what pi represents.

10. Explain how you would CALCULATE (not measure) the circumference of a circle.



11. Choose 3 circular objects from your table, measure the circumference and see if you can calculate π . Write your observations here:

Object 1:



Object 2:

Object 3:

Problems to Practice

1) Find the circumference of a circle, which has a diameter of 13 m.

2) Find the circumference of a circle, which has a radius of 5 feet.

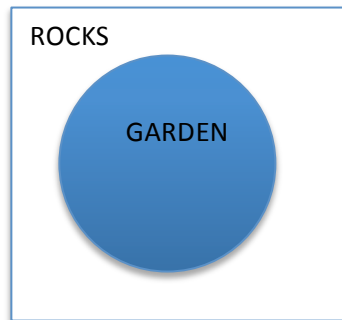
3) Find the area of a circle, which has a radius of 6 inches.

4) Find the area of a circle, which has a diameter of 23 cm

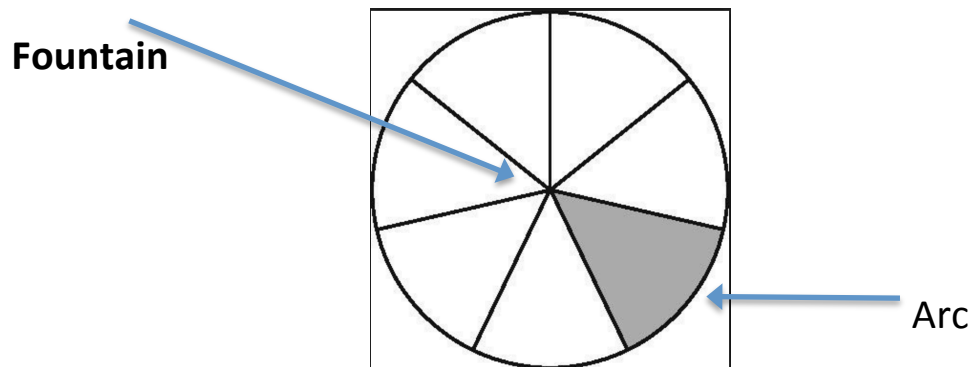
5) The circular bases of the traditional tepees of the Sioux and Cheyenne tribes have a diameter of about 15 ft. What is the area of the base? Round to the nearest square foot.

- 6) A ferris wheel has a diameter of 135 m. How far does a rider travel in one full revolution of the wheel?**
- 7) The front wheel of a high-wheel bicycle from the late 1800s was larger than the rear wheel to increase the bicycle's overall speed. The front wheel measured in height up to 60 inches. Find the circumference and area of the front wheel of a high-wheel bicycle.**
- 8) The large stones of Stonehenge are arranged in a circle about 30m in diameter. Find the area of the circle.**

- 9) A circular garden with a radius of 4 ft. is planted in the center of a 10 ft. square. The part of the square that is NOT the garden is covered with small white rocks. What is the area of the region covered with white rocks?



- 10) The diagram shows a fountain at the center of a circular park. The radius of the circle is 30 ft. The circular region is divided into six equal parts. What is the length of the arc in the shaded region? Round to the nearest tenth.



11) CHALLENGE:

Mr. Vaughn and Mrs. Campbell are going to eat a pie for Pi Day. Mrs. Campbell starts out with $\frac{1}{3}$ of the pie, and Mr. Vaughn gets $\frac{2}{3}$. But then Mrs. Campbell eats $\frac{2}{3}$ of Mr. Vaughn's portion, and Mr. Vaughn eats $\frac{1}{3}$ of Mrs. Campbell's portion. Finally, each of them eats what is left on their own plate. How much pie does Mr. Vaughn eat in total?

