

Name _____

Saving Sir Cumference

Help Radius and Lady Di of Ameter save Sir Cumference! The answer to this problem lies in the poem. Can you solve the riddle?

Part A

Carefully read the poem, *The Circle's Measure*. Then answer the following questions:

1. What do you think is meant by “measure the middle and circle around?”
2. According to this poem, what two numbers should you “divide?”

The Circle's Measure

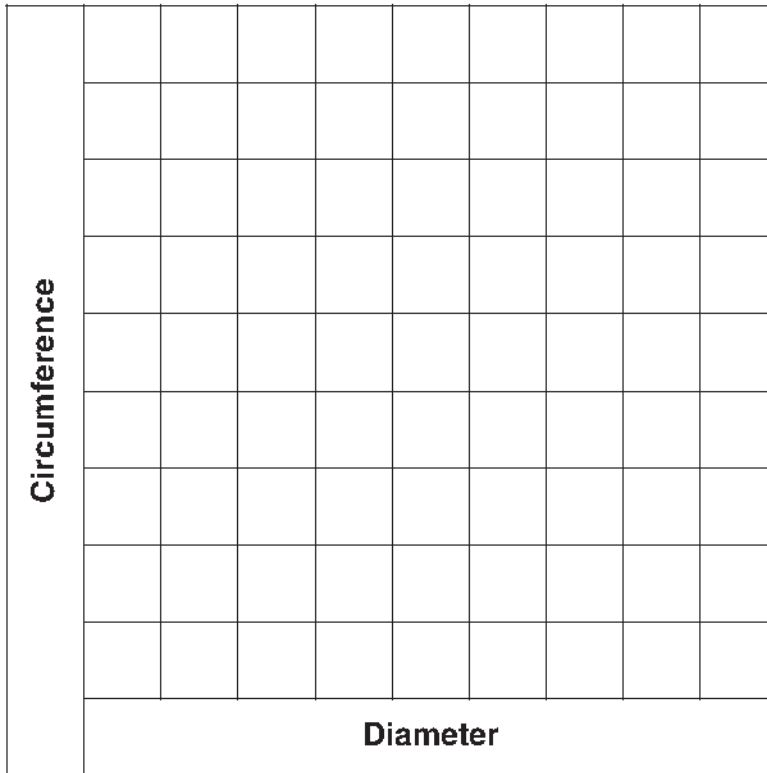
Measure the middle and
circle around,
Divide so a number can be
found.
Every circle, great and
small—
The number is the same
for all.
It's also the dose, so be
clever,
Or a dragon he will stay...
forever...

Part B

Use a measuring tape to find the diameter and circumference of several circular objects. Discuss with your group how to record your data. Create a table below.

Part C

Use a piece of centimeter grid paper to make a coordinate graph like the one below. Use the horizontal axis for diameter and the vertical axis for circumference. Plot the data points for each object your group measured on the graph.



Part D

Study your table and your graph. Look for patterns and relationships that allow you to predict the circumference using the diameter. Test your ideas on other circular objects. Once you think you have found a pattern, answer the questions below:

1. What is the relationship between the diameter and the circumference of a circle?

2. What dose should Radius give Sir Cumference? How do you know this is the correct dose?