

Step 1

Draw a circle about this big....

Step 2

Using a piece of string...measure around the circle.

Cut the string.

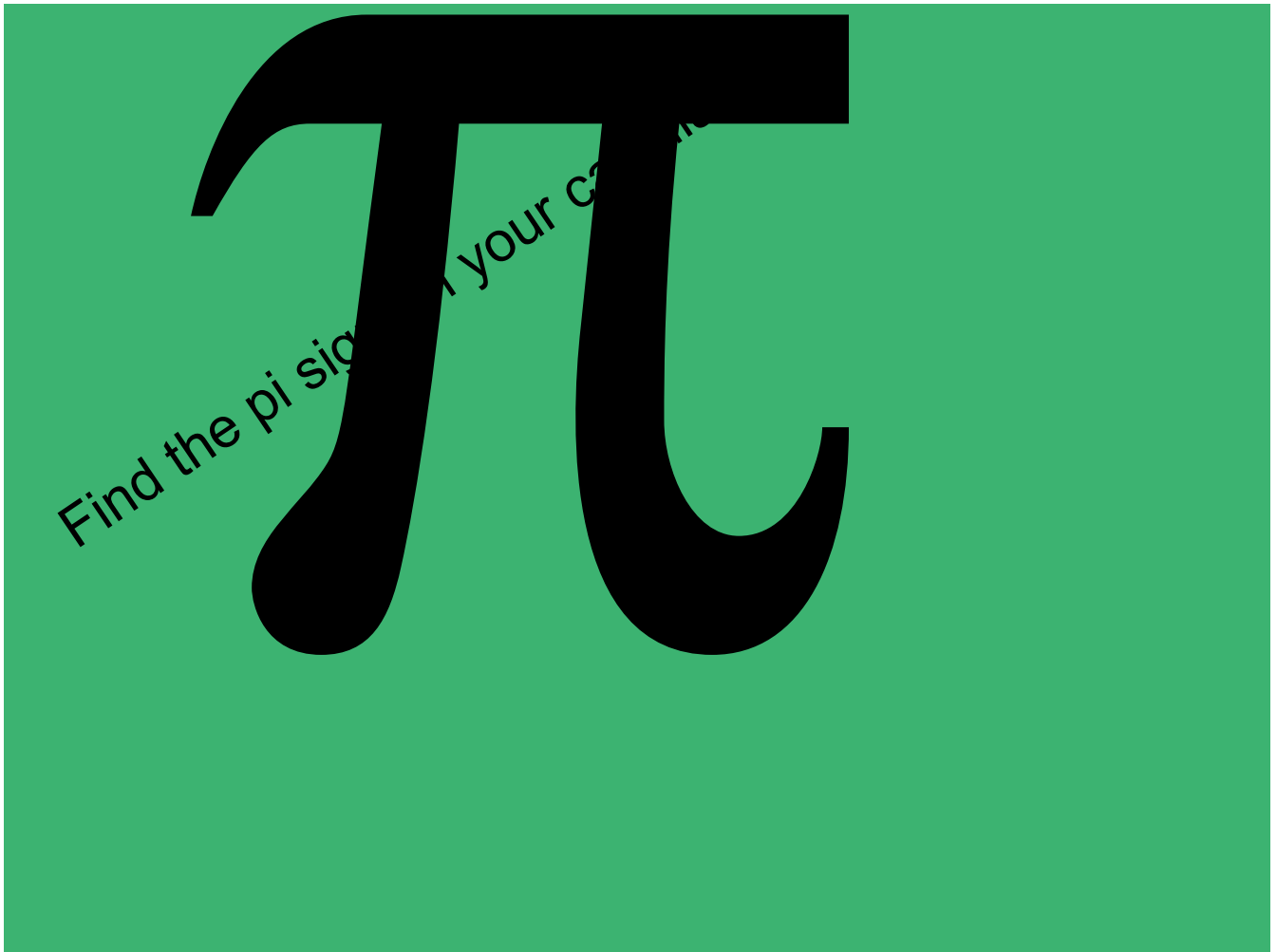
Step 3

Using the same string....measure the diameter of the circle.

Do this several times until you run out of string.

How many pieces do you have? Why?

Formula????.....



Lesson # 30

Circumference / Diameter / Radius

HISTORY

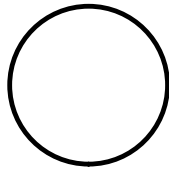
The number Pi

$\pi = 3.1415927 \dots$ (3.14159 for short)

3.14

Finding the circumference from the Radius:

radius = 8cm

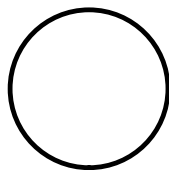


$C = 2\pi r$

$C = 2\pi 8$
 $C = 50.27 \text{ cm}$

Finding the circumference from the diameter:

diameter = 10m



$C = \pi d$

$C = \pi 10$
 $C = 31.42$

Finding the radius or diameter from the circumference:

Work backwards!!

$C = 2\pi r$

$C = \pi d$

$\frac{C}{2\pi} = r$

$\frac{C}{\pi} = d$

Example 1 Find the diameter, if the circumference is 28cm.

$d = \frac{C}{\pi}$

$d = \frac{28}{\pi}$

$d = 8.91 \text{ cm}$

Example 2 Find the radius, if the circumference is 36cm.

$r = \frac{C}{2\pi}$

$r = \frac{36}{2\pi}$

$r = 5.73$

Attachments

Early History of Pi.asf

Defining Circumference Radius and Diameter.asf

The number Pi.asf

circumferenceUS.notebook