Step 1

Draw a circle about this big....

$\frac{C}{d} = 3.14$

Step 2

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

Cut the string.

Step 3

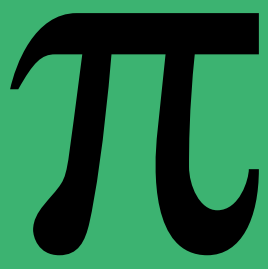
Using the same string....measure the diameter of the circle.

Do this several times until you run out of string.

How many pieces do you have? Why?

Formula????.....

Find the pi sign on your calculator



Lesson # 30

Circumference / Diameter / Radius

HISTORY

The number Pi

π = 3.1415927..... (3.14159 for short)

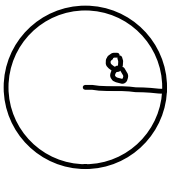
Finding the circumference from the Radius:

$\frac{C}{d} = \frac{\pi}{1}$

$C = d\pi$

radius = 8cm

$C = 2\pi r$



$C = 2(3.14)(8)$

$= 50.24$

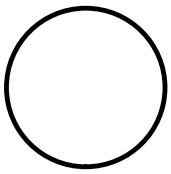
$2\pi 8$

$= 50.27$

Finding the circumference from the diameter:

diameter = 10m

$C = \pi d$



$C = 3.14(10)$

$= 31.4$

$d = 100$

$3.14(100)$

314

Finding the radius or diameter from the circumference:

Work backwards!!

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

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

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

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

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

$C = \pi d$

$\frac{28}{3.14} = \frac{3.14d}{3.14}$

$d = 8.92$

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

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

$= \frac{36}{2\pi} = \frac{36}{6.28}$

$= 5.73$

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

$= \frac{36}{\pi} = 11.46$

$r = \frac{11.46}{2} = 5.73$

Homework

Act Bk

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Attachments

Early History of Pi.asf

Defining Circumference Radius and Diameter.asf

The number Pi.asf

circumferenceUS.notebook