

The Correct Value For a Circle

This is a new method to calculate the Pi number.

How do you easily find the number of the Pi 3.141592653, try yourself!

We have three figures of Squares which they have relationship with Circles.

The figures are squares and their circles, "Diameters Equal Sides".

Not: every Square has into a circle which means Side equal Diameter.

In that case Square sorted in three groups, group 1, group 2, and group 3.

All groups of the Squares have Area and Circumference. But they have different qualification in Area and circumference. By that mean

1. Group one: areas smaller than perimeters. Squares side bigger than 0 and smaller than 4 units.
2. Group two: Area equal Perimeter. Squares Side only 4 units
3. Group three: areas bigger than perimeters. Squares side bigger than 4 units to infinite.

Now you need a formula to use the squares side put into the formulae than you get a value.

The formula is: Percentage formula : $\Rightarrow Q = (\ln \sqrt{(s^2 * 2)} / \ln s)^2 / 2$

Some example: with the value (Q) you calculate Area and Circumference.

Some example below:

$4Q = \text{Constant value}$

When you put a side of a square into the formula $(\ln \sqrt{(s^2 * 2)} \div \ln s)^2 * 2 = 4Q$ obtain.

With the value (4Q) you can calculate circumference and area also calculate its diameter via application.

You put number of sides 1000, 100, 10, 9, 8, 7, 6, 5, "4", 3.929, 3.928105767, 3.9, 3.5, 3.0, 2.5, 2.0, 1.5 ... into formula which that produces for each a value. Whit values you solve circles Areas and Circumferences note Diameter uses as square's side has put into formula. (Value multiplies Square side as diameter). Then the circles Areas and Circumferences divide with the value of pi 3.141592653 , in that case you give for each a new diameter. If a diameter becomes the same as side it is correct value, if not try another square side.

You try first with group one, second try group three, third try with the group two. Try until you get diameter equal to the side. When you get a diameter equal to the side that is correct value and it shall become valid to all circles to solve their circumferences and areas. The calculation below helps you.

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You first applying the Grading System for Squares as below, than whit their results you construct Grading System for Circles as Squares see below. The calculation below helps you. Note: the Sid **3.928105767**

	Grading system one Squares	Grading system Two Circles
Group three	9.5-10-100 Area > Perimeter 6-7-8-9 diameter < Side 4.5-5 4.1	Group three diameter < side { 2.6473695... 2.680688798... 2.775856154... 2.848533192... 2.954094263... } Area bigger then Circumference
Group two	← 4 → Perimeter = Area 3.999 Side = Diameter	Group two Diameter = Side ← 3.125 → Area Equal Circumference
Group one	3.928105767 Perimeter > Area 2.5-3-3.5 diameter > side 0.5-1-1.5-2.0	Group one diameter > side { 3.140... 3.141381411... 3.141592653... Circumference 3.148296604... bigger then Area 3.259657054... 3.46089568... }

Note: the Sid of **3.928105767** into formula obtains **3.141592653**.

With the value you obtained circumference and area, divide with (pi) = 3.141592653 than you obtain a new diameter. With the value and new diameter calculate again area and circumference. If you obtain diameter as square side that is correct if not that is wrong. The calculation below helps you.

Value of the square with side 6

$$\text{Value} = (\ln \sqrt{(6^2 * 2) / \ln 6})^2 * 2 = 2.848533192...$$

Value of the square with side 5

$$\text{Value} = (\ln \sqrt{(5^2 * 2) / \ln 5})^2 * 2 = 2.954094263...$$

Value of the square with side 4

$$\text{Value} = (\ln \sqrt{(4^2 * 2) / \ln 4})^2 * 2 = 3.125$$

Value of the square with side 3.929

$$\text{Value} = (\ln \sqrt{(3.929^2 * 2) / \ln 3.929})^2 * 2 = 3.141381411...$$

Value of the square with side 3.928105767

$$\text{Value Of Pi} = (\ln \sqrt{(3.928105767^2 * 2) / \ln 3.928105767})^2 * 2 = 3.141592653$$

Value of the square with side 3.9

$$\text{Value} = (\ln \sqrt{(3.9^2 * 2) / \ln 3.9})^2 * 2 = 3.148296604...$$

Value of the square with side 3.5

$$\text{Value} = (\ln \sqrt{(3.5^2 * 2) / \ln 3.5})^2 * 2 = 3.25965705...$$

Value of the square with side 3

$$\text{Value} = (\ln \sqrt{(3^2 * 2) / \ln 3})^2 * 2 = 3.460895684...$$