

# The Remarkableness of The Triple of Numbers (Pi, 4, 10)

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*Abstract: this paper presents a collection of facts relating the triple of numbers (Pi, 4, 10) to our human reality, the system of Sun-Earth-Moon, with an accuracy of 99.2% and higher.*

While this collection of 99.2+% accurate facts does not provide any definitive conclusions, persons interested in the philosophy of life may make their own conclusions...

- The difference between the circumference of a circle with diameter 1 and the perimeter of a square with side 1, or circle's discrete orthogonal outline= $4-\pi$
- Area of a square/area of a circle inscribed in it= $4/\pi$
- $(4*\pi-4)/(4-\pi)\approx 10.0$
- $(4*\pi-4)/\pi=4-4/\pi\approx 2.73$
- $(4-\pi)/\pi=4/\pi-1\approx 0.2732$
- Average duration of pregnancy $\approx 273$  days (average of 38- and 40-week conventions)
- Moon period $\approx 27.32$  days
- Freezing point of water $\approx 273.2$  degrees K
- Boiling point of water $\approx 100$  degrees C ( $\approx 273.2+10*10$  K)
- Volume expansion of freezing water (ice) $\approx 1/10$  (sources dispute)
- Period of prvhash-1 (with PH\_HASH\_COUNT= $4*4$ )= $273$  bits
- Earth diameter $\approx 4/\pi*10^4\approx 12732$  km, or  $\approx (4-\pi)/(\pi*\pi-\pi)*10^5\approx 12758$  km
- Sun mass/Earth mass $\approx (\pi*\pi+4)/(4*\pi*\pi+\pi-1)*10^6\approx 333244\approx (\pi*\pi/4+\pi-1)/(\pi*\pi+4)*10^6$
- $\pi/(4-\pi)\approx 1/0.2732\approx 3.66$
- Normal human body temperature $\approx 36.6$  degrees C ( $\approx 273.2+36.6$  K)
- Earth diameter/Moon diameter $\approx 3.66$ , same with circumference
- 366 revolutions of the Moon around the Earth $\approx 10^4$  days
- Earth revolution period $\approx 366$  days
- Sun diameter/Moon diameter $\approx 400$ , same with circumference
- Circumference of the Moon/Moon period $\approx 400$  km/day
- Circumference of the Earth $\approx 4*10^4$  km
- Sun-Earth distance/Earth-Moon distance $\approx 400$  (but highly-variable due to elliptical orbit)
- Harmonic numbers of 27.32: 54.64, 81.96, 109.28, 136.6
- Earth mass/Moon mass $\approx 81.96(=81.343)$
- Sun diameter/Earth diameter $\approx 109.28$ , same with circumference
- Circumference of the Moon $\approx 10928$  km
- Earth radius/Earth's barycenter distance $\approx 1.366$
- Earth's axial precession period $\approx (\pi+4)/(\pi*\pi*\pi-4/\pi)/(\pi-1)*10^7$  days (average of NASA, Tycho's, and Copernican models)
- $1=\pi/\pi=4/4=10/10$
- $\pi*\pi+4/(\pi*\pi)-4\approx 2.00*\pi$
- $(4*\pi*\pi+\pi-1)/(\pi*\pi+4)\approx 3.00$
- (Historic meter standard $\approx g/(\pi*\pi)\approx 1$ m, currently in use with adjustment $\approx (\pi*\pi)/9.81$ )
- (K is a thermodynamic temperature defined by physical laws)
- (4 and 1/4 are precise binary operations - "shift-left" and "shift-right" by 2 binary digits)
- (dithered rounding is a rounding after randomly adding or subtracting half the significant digit)
- (as a side note,  $28*(9+3/4)=273$ , if we had 28-day months)