When stones speak

What does the Great Pyramid has intrinsically with its dimensions? (not exhaustive)

Dimensions of the Great Pyramid :

The dimensions of the Great Pyramid in Royal Cubits are not contested.

BASE : 440 RC
HIGHT : 280 RC

However, it is the metric value of the Royal Cubit what raises problem.

In an archeologic point of view, we can not assert exactly its value because of the fact that many representations of the Royal Cubit (wooden) were found, going of 52cm to 53cm.

Nevertheless, when we study the problem with a mathematician's vision, something is very interesting. Indeed, when we divide the number irrational and transcending Pi, into 6 equal parts, the result is **0,523598776**.

$$\textit{Indeed} \quad \pi \div 6 = 0{,}523598776$$

What seems to correspond to the metric value of the Royal Cubit.

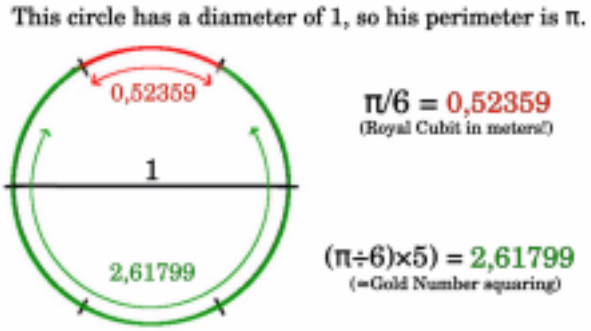
Besides, when we square Phi *(the Golden number)* we have : **2,618033989**.

$$\textit{Indeed} \quad ((1+\sqrt{5})\div 2)^2 = 2{,}618033989$$

That is interesting, when we see that : **(π÷6)×5 = 2,617993878**.

It thus seems that the (metric) value of the Royal Cubit was determined by mathematical convenience. Obviously, the Meter was known.

Here is my plan which summarizes it :



Now that we know the metric value of the Royal Cubit, we can calculate the dimensions of the Great Pyramid in meters. I consider that the metric value of the Royal Cubit is Pi/6.

Base : 440 x (π/6) = **230,3834613 meters**
Height : 280 x (π/6) = **146,6076572 meters**

other dimensions to know :

Apothem : √((230,3834613÷2)²+146,6076572² = **186,448223268 meters**
Half-base : 230,3834613÷2 = **115,19173065 meters**
Perimeter of the base : 4 x 230,3834613 = **921,5338452 meters**
Half-Perimeter of the base : 921,5338452 ÷ 2 = **460,7669226 meters**
Diagonal of the base : √(2×230,3834613²) = **325,811415517 meters**
Edge : √(146,6076572²+(325,811415517÷2)² = **219,16221109 meters**
Circumscribed circle of the base : (325,811415517÷2)×2π = **1023,566749444 meters**
Inscribed circle on the base : 115,19173065×2π = **723,770989529 meters**
Surface of the 4 faces : 4×186,448223268×115,19173065 = **85909,174059434 m²**
Surface of the base : 230,3834613² = **53076,539240569 m²**

Now, calculate!

For all the demonstrations, I write in this form:
dimension(s) (/x+-) dimension(s) = *detail of the calculation* = résult
And : highlighting
% of error

- **Half-Perimeter of the base - Height** = *460,7669226 - 146,6076572* = 314,1592654
  And : 100π = 314,159265359
  0,000000013% of error

- **Height - Half-base** = *146,6076572 - 115,19173065* = 31,41592655
  And : 10π = 31,4159265359
  0,000000045% of error

- **Half-Perimeter of the base ÷ Height** = *460,7669226 ÷ 146,6076572* = 3,142857143
  And : π = 3,14159265359
  0,0402% of error

- **Half-base + Height** = *115,19173065 + 146,6076572* = 261,79938785
  And : 100xΦ² = ((1+√5)÷2)² = 261,8033989
  0,00153% of error

- **Height ÷ Half-base** = *146,6076572 ÷ 115,19173065* = 1,272727273

  And : √φ = √((1+√5)÷2) = 1,27201965

  0,0556% of error

- **Apotem ÷ Height** = *186,448223268 ÷ 146,6076572* = 1,2717495

  And : √φ = √((1+√5)÷2) = 1,27201965

  0,0212% of error

- **Apothem ÷ Half-base** = *186,448223268 ÷ 115,19173065* = 1,618590347

  And : φ = (1+√5)÷2 = 1,618033989

  0,0344% of error

- **Surface of the 4 faces ÷ Surface of the base** = *85909,174059434÷53076,539240569* = 1,618590347

  Or : φ = (1+√5)÷2 = 1,618033989

  0,0344% of error

- **Height x 2π** = *146,6076572* × 2π = 921,163077639

  And : Perimeter of the base = 921,5338452

  0,0402% of error

- **Half-perimeter of the base** = 460,7669226

  And: Rotation speed of the Earth on itself for a point of the equator = 463.8 m/s

  0,654% of error

- **Half-circumference of the circumscribed circle to the base - Height**

  = (*1023,566749444÷2) - 146,6076572* = 365,175

  And : Average of one gregorian year = 365,2425 days

- **Perimeter of the circumscribed circle to the base - Perimeter of the inscribed circle to the base** =*1023,566749444 - 723,770989529* = 299,795760

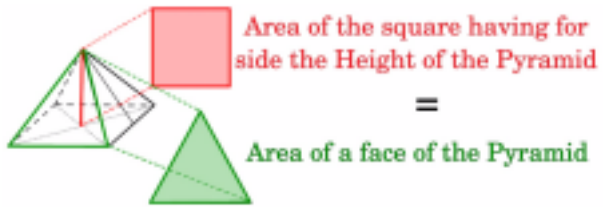
  And : Speed of Light in the vacuum by billion of m/s = 299,792458

  0,0011% of error

- **Surface of the square having for base the Height of the Pyramid** = *146,6076572* ² = 21493,80515

And : Surface of one face of the Pyramid = 85909,174059434 ÷ 4 = 21477,29351

0,0768% of error



For the two next calculations, it should considered that the sun puts 12h to go from East to West. That is to say **43200** seconds (12x3600).

- **Height x 43200** = *146,6076572 x 43200* = 6 333,45079104 km

And : Polar radius of Earth = 6 356,752 km

0,366% of error

- **Perimeter of the base x 43200** = *921,5338452 x 43200* = 39 810,26211264 km

And : Equatorial perimeter = 40 075,017 km

0,660% of error

- **(2xEdge)/Base** = (*2x219,16221109) / 230,3834613* = 1,902586322

And : Constant of Brun : B_2 = 1,90216 05831 04

0,0224% of error

- **((2xEdge)+Base)/Half-perimeter** = (*2x219,16221109+230,3834613) / (460,7669226)* = 1,451293161

And : Constant of Ramanujan-Soldner : μ = 1,451369234 883 381 050 28

0,00524% of error

- **Apothem ÷ Base** = *186,448223268 ÷ 230,3834613* = 0,809295173

And : Constant of Alladi-Grinstead = 0,809 394 020 540 639 130 71

0,0122% of error

It is up to each and everyone to be made its opinion on the subject.
Can we healthily consider that all I demonstrated holds of random? Or is this (much) too improbable? Can one honestly be unaware of all these facts and results and their precision, under the pretext wich «one makes say to the figure what one wants» ? (Aberrant remarks besides).

Would not one have to lean seriously on the question? Are it so clandestine and heretic that to give half-opened way to the doubt? This doubt, this "why not?" who then will leave room to the personal experimentation, to bring to his own conclusions. Is this so hard that??

The unicity of the Great Pyramid is prouved (http://www.sylvaingarcia.name/pyramids.pdf). While seriously having even consulted studied this quoted document, even if one is not completely convinced of his relevance or veracity, can we really say that the dimensions of the Great Pyramid were randomly selected? It would seem that they were selected for the mathematical reasons which I demonstrated, and that is surely very complex, so much so that exceeds most of us. Us, individuals of an allegedly modern and advanced "civilisation", and which launches Inquisitions of the thought with each time its limits are done day.

Sorry for my English, I am not anglophone.

MUST SEE!

Here my video covering this issue exactly, *help me by sharing it, thanks.*

http://youtu.be/dp31oVdIfek