

The human vertebrae, the number phi, the square root of 2, the number pi and the number e

By

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Abstract

The numbers and proportions of the human vertebrae are not randomly organized but have relations to the number phi, the square root of 2, the number pi and the number e. This paper shows these relations.

If we take the maximum number of vertebrae a human can have (34, including the five vertebrae of the os sacrum and the (mostly) four vertebrae of os coccygis) and divide this number through the number of maximum vertebrae minus the number of vertebrae from the most outer vertebra (vertebra number 13, also called Th6) we get the number ~ 1.619 . This is the number phi with a deviation of less than 1:100.

For better understanding the following formula (equation):

$$34/(34-13) = \sim 1,619.$$

If we take the maximum of vertebrae a human can have and divide this number through the number of vertebrae without the number of vertebrae of os sacrum (S1) and os coccygis (S2) we get the number ~ 1.416 . This is the square root of 2 with a deviation of less than 1: 100.

For better understanding the following formula (equation):

$$34/24 = \sim 1,416.$$

If we take the number of the first two sections of the human vertebrae (17, C1-Th12) and the number of vertebrae of os sacrum (5, S1) divided through the number of the third section of the human vertebrae (7, L1-L5) we get the number $\sim 3,1428$ or in other words the number pi with a deviation of less than 1:100.

For better understanding the following formula (equation):

$$(17+5)/7 = \sim 3,1428 \text{ or}$$

$$22/7 = \sim 3,1428.$$

If we take the number of vertebrae of the second (12, Th1-Th12) and the first section (7, C1-C7), and divide them through the number of the first section we get the number 2,714 or in other words the number e with a deviation of less than 1:100.

For better understanding the following formula (equation):

$$(12-7)/7 = \sim 2,714 \text{ or}$$

$$19/7 = \sim 2,714.$$

Result:

The proportions of our vertebrae system is not randomly created but have an inner mathematical structure that contains ratios which represents the numbers phi, the square root of 2, the number pi and the number e. This is a miracle and shows us that there is a God.