

The Magic Divisors of Whole Numbers

- (1) Take any whole number, say, 10
- (2) List all its divisors (including 1 and itself): 1 2 5 10
- (3) Count the number of divisors of each of these divisors:

Divisors of 10 (from above): 1 2 5 10
Number of divisors they have: 1 2 2 4

- (4) Do the following two simple calculations:

- (4.1) Sum the cubes of these numbers:

$$1^3 + 2^3 + 2^3 + 4^3 = 81$$

- (4.2) Square the sum of these numbers:

$$(1 + 2 + 2 + 4)^2 = 81$$

I can assure you that these two results are always equal no matter what whole number you picked at the beginning.

If you don't believe me, simply try another whole number !