Dart Magic

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Recreational Mathematics

"Wherever a number is the beauty"

[Proclo]

Summary

This article disseminates a new mathematical concept designed by the author in the year 2015 to which entitled: "Magic Dart", this mathematical entity has a property exquisite not before discovered by the mathematical community, which will be of great pleasure for those who are interested in the educational and recreational mathematics.

One of the activities that are carried out by the author in his daily work is the teaching practice and it is there where attempts to combine the objectives entrusted to him in the delivery of the classes with the implementation of the Recreational Mathematics, always seeking to expand and disclose in an entertaining way the mathematical knowledge that are manifest in a classroom.
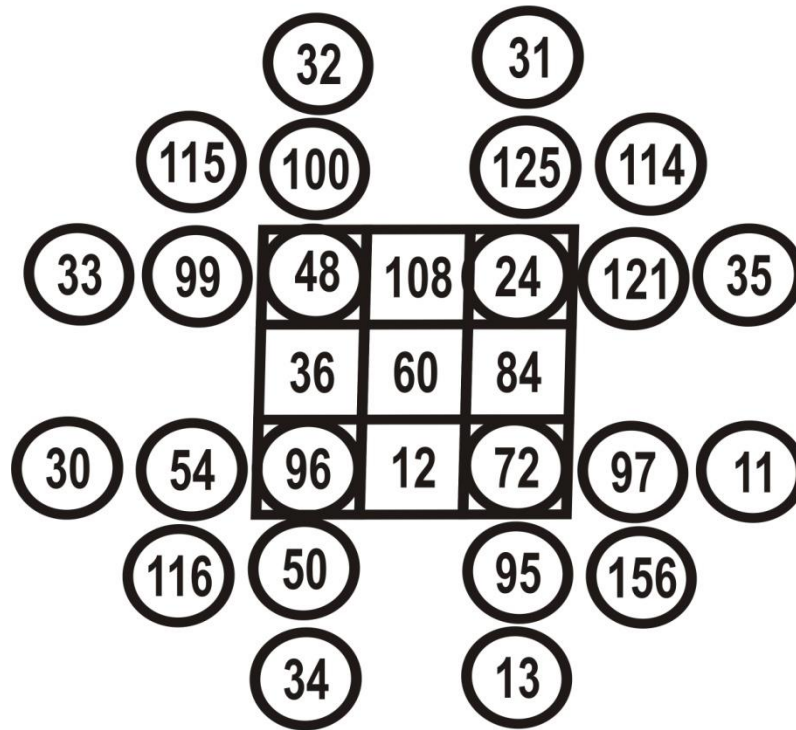
Keywords: Number, Mathematics, arithmetic, mathematical recreational, New Concept, Mathematical Entity, Dart Magic, Magic Square, magic triangle.

Dedicated to all the people of Fresnillo

It consists in constructing a magic square whose corners are magical triangles, as shown by the following example:

REHÍLETE CON CONSTANTE MÁGICA =180

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              (32)            (31)
       (115)(100)      (125)(114)
  (33)(99)⌜48│108│24⌝(121)(35)
              │36│60│84│
  (30)(54)⌞96│12│72⌟(97)(11)
       (116)(50)      (95)(156)
              (34)            (13)
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The main requirements for their construction are:

1. There must be a magic square in the center
2. The magical triangles of the corners should at their sides have the quantity of items equal to columns and rows of the magic square or even more.
3. The agic constant of the magic square must match the magic triangle in each one of its sides.
4. All the numbers should be different except for the four corners that are elements in common for the square and triangle magical.