

The logo for 'EQ' is composed of three main parts. The 'E' is a white shape with a yellow-orange border. The 'Q' is a white shape with a red border. The 'I' is a solid dark red vertical bar. Below this graphic, the word 'puzzles' is written in a bold, dark red, lowercase sans-serif font.

**EQ**  
**puzzles**

**Eq and iq**  
**developmental toys**



## What is the Eni Puzzle?

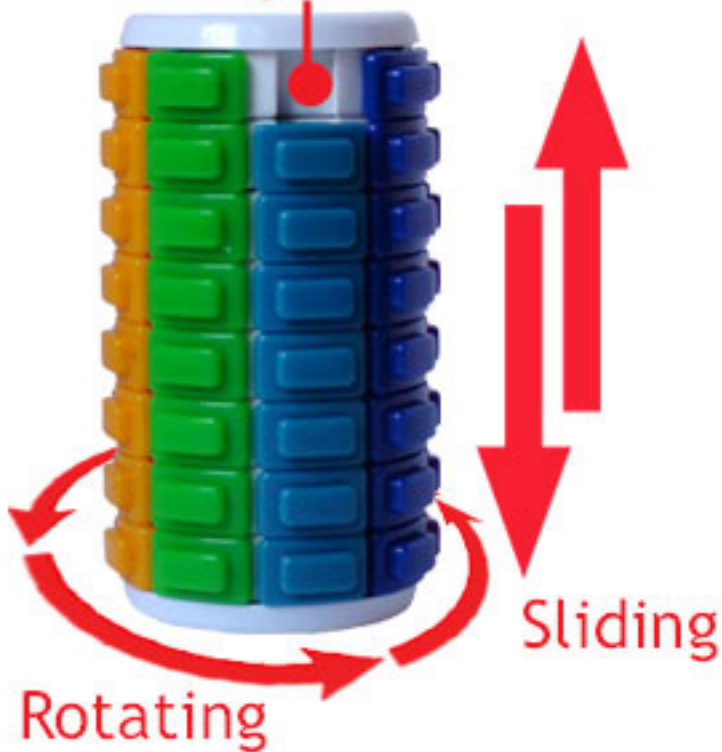
The Eni Puzzle is math without numbers. By arranging the colored tiles into patterns, the fundamental tools of math are being used. The sequencing and pattern recognition are keys to basic mathematics and building blocks of creativity. In the early stages of using the puzzle, simple pattern recognition teaches how to manipulate the empty space. As the puzzle advances and the empty space is more easily accounted, the puzzle becomes more of a drawing tool for creativity to exercise new patterns created by its user. The more tiles in the puzzle, the more opportunity to create complex designs with one empty space. There is no "one-set-solution." There are a multitude of solutions.



## Building Blocks of Mathematics made fun?

The empty space allows all of the opportunity for the puzzle to function as a creative puzzle. The space is a constant. The empty space is the variable; which is always in the puzzle and always accounted for while creating the solutions. The empty space is the "constant-variable." The empty space is a learning toy and a building block of algebra. Because parents struggle to explain the idea of the variable to their children, this puzzle was actually designed as a toy by a soon to be first time parent and grandfather as something that they could help explain, enhance, and ensure basic math strategy to their child. The original puzzle was carved out of wood by the retired architect (grandfather) and part brainchild of the father obtaining his degree as a rocket scientist from Purdue University. The puzzle has become a fun learning toy for first grade students in their hometown of Seoul, South Korea. Who ever said that math could not be fun and creative?

## Missing Piece



## How it works

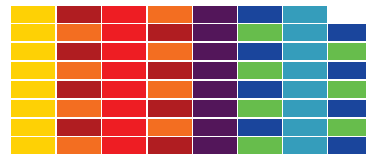
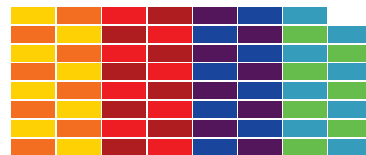
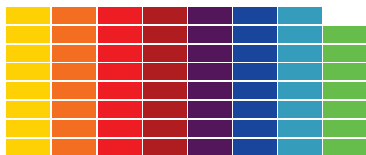
The basic shape of the ENI is cylindrical. The cylinder is divided by several "ring-shape sections." These sections can rotate independently. Each ring section includes multi- individual parts, with one piece missing. These parts can travel along each ring by using the missing piece (empty space). By rotating and sliding the pieces in and out of the empty space, a multitude of solutions is possible.

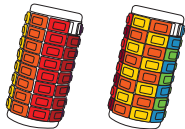
The object of the puzzle is to place the tiles into patterns by making the rotating and sliding moves that manipulate the empty space.

The difficulty of the game is very normal and medial. This is a real puzzle that can be solved without knowing a pre-set series of moves. There is no algorithm, this is a problem solving challenge; just like a jigsaw or sudoku puzzle. No batteries or accessories required!

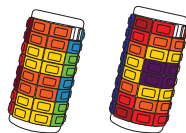
# Solution Guide

Below are some charted examples of solutions for the “mini” Eni Puzzle. They are not the only patterns, but a reference to get started in challenging yourself in the multitude of solutions offered by the puzzle.





multiple solutions



### it's easy

This is the type of toy that anyone can play without instruction... a little curiosity will lead the way!

creative solutions

### It's Missing a piece

Because a piece is missing, you can put a piece anywhere you want.

### Just like a jigsaw

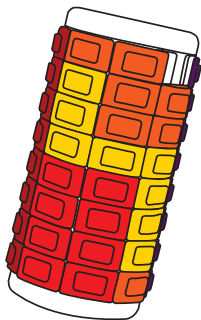
There is no set series of moves or algorithms, you decide where the pieces go.

### Travel companion

The mini puzzle is designed to fit into your pocket-backpack-purse... it goes where you go! Subways, trains, planes, the back of mom's car... the idea is to keep the hands moving while exercising your brain. A perfect "figit" toy that enhances the basic fundamentals of math and creativity. Wii & Playstations video games require cartridges, controllers, batteries, and a lot of space. With an Eni Puzzle, the only requirements are a little curiosity and one small empty space.

unique solutions

fun solutions



The "Lightning Bolt" solution created by 11 year-old "Matthew" at the TIA Toy Fair 2010

### Puzzle solved

The solution is the one that you choose; it's the that you create! The empty space makes it possible for you to challenge yourself in a variety of solutions and patterns.

create  
inspire  
innovate  
imagine

What can you do with a little space?

# “Braille”

3BBW

3PBBY



The Braille puzzle was originally designed to assist the visually impaired, but has also become very popular with children ages 5-8 because of the texture. Because of its original design for the visually impaired, the pieces need to “click” into place and are harder to move.

# Catalog

# “Mini”

4MBW

4MPBY



Designed to dress up an iPhone, a backpack, iPods, etc. These accessories become individualized by using your creative palate in a multitude of solutions.

The Mini puzzle is one of the best selling because of its size. Fits perfectly into your pocket or backpack, the mini is a perfect travel companion. Unlike a crossword, no pen required. And unlike a personal playstation, no batteries!

# “Mini with Numbers”



4MNBW

4MNPW



For those seeking less creativity and more of a challenge, the mini puzzle is more difficult to align the tiles by color and numbered order. Some of the creative “drawing” aspects are lost, but the challenge is greater.

Accessories that challenge. Adding numbers makes it even more of a challenge, but allows less complex pattern solving.

# “Keychain”

5KBW

5KPBY



# “Keychain with Numbers”



5KNBW

5KNPW



Bold Color Scheme



Pastel Color Scheme



# links

## Blogs:

<http://www.amusetoysblog.com/>

<http://seenfromtheheart.blogspot.com/2010/01/braille-eni-puzzle.html>

[http://assistivetech.net/search/productDisplay.php?product\\_id=53270](http://assistivetech.net/search/productDisplay.php?product_id=53270)

## You Tube:

<http://www.youtube.com/watch?v=2FhaNwSEf9Q>

<http://www.youtube.com/watch?v=DLWL3j24pRE>

<http://www.youtube.com/watch?v=n99B9SLfG00&feature=related>

## Eni Puzzle Advantages:

- Eni Helps children see and understand patterns
  - Eni Helps develop problem solving skills
- Eni Helps children with basic eye and hand coordination
  - Eni Helps teach fundamental math skills
- Eni Helps with shape recognition and space perception
- Eni Helps teach basic strategy of thinking moves ahead
  - Eni Helps develop creativity

