Creative 3-D Puzzle Ball

Solution

This page offers seven useful manoeuvres to achieve small distinct changes of the puzzle ball. According to the rule "Green=Go, Red=Stop", always turn the half of ball depicted in green by 120° (one third of a complete revolution) in the indicated direction and leave the half-ball depicted in red unmoved. The result is given by the big yellow diagram above the manoeuvre using the following symbols:

+ : 120° clockwise rotation of a triangle,
- : 120° counterclockwise rotation of a triangle,
\(x\) : 180° rotation of a square.

Be careful to always hold the Puzzle Ball the same way while executing a manoeuvre! Notice that it is impossible to rotate squares by 90° or rotate just one square by 180° or to exchange just two squares or two triangles. It is possible, however, to rotate two squares by 180°, and three squares or three triangles can change places cyclically.

Enjoy great fun and every success!

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7.