Polyhedra that know calculus

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Abstract: I will introduce you to two beautiful polyhedra that are hiding underneath the multiplication table. These polyhedra know how to perform some interesting calculus computations. The reasons for this surprising fact lie at the intersection of combinatorics, algebra, and geometry. Most of the talk will be accessible to anyone who knows the multiplication table.

Keywords: Multiplication table, polyhedra, calculus, inverses, combinatorics.

Social Justice, Music and Math: After the 50-minute long talk on polyhedra, the event will continue with an informal conversation with the speaker about social justice, music, and mathematics.