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Summing squares and cubes of integers.

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Summary: Recreational mathematics can provide students with opportunities to explore mathematics in meaningful ways. Elementary number theory is one area of mathematics that lends itself readily to recreational mathematics. In this article, the author provides two examples from elementary number theory with results that students might find surprising, and which may be used to motivate them to study additional topics from number theory.

Classification: F60 I30
Keywords: sums of integers; sums of squares; sums of cubes; arithmetic progression; visualization; proofs; number theory; recreational mathematics; pattern recognition; series