

**ZMATH 2016b.00542**

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**Figurate numbers.**

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Summary: This is an informal exploration of figurate numbers that was sparked by an architect and the number 575. It is intended as a topic that would be appropriate for mathematics in a high school.

*Classification:* F60 N70 A20 U70

*Keywords:* figurate numbers; recursion; differentiation; pentagonal numbers; hexagonal numbers;  $k$ -agonal numbers; regular polygons; spreadsheets; first differences; second differences; differentiating; student activities; growth patterns; visualization

<http://epublications.bond.edu.au/ejsie/vol9/iss1/2/>