## Proof Without Words: The Sum Of The First *n* Odd Integers is a Perfect Square

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(*Editors' note:* Doubling  $\frac{S}{2}$  from the bottom image yields the desired result.)

## References

Chakraborty, B. (2018). Proof without words: The sum of squares. *Mathematical Intelligencer* 40 (2), 20.

Lehel, J. (1991). Proof without Words: The Sum of Odd Numbers. Mathematics Magazine 64(2), 103.

- Nelsen, R. (1993). Proofs without Words: Exercise in Visual Thinking. Washington D.C.: The Mathematical Association of America.
- Nelsen, R. (2015). Proofs without Words III: Further Exercise in Visual Thinking. Washington D.C.: The Mathematical Association of America.

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