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Difference of Two Squares

$3n$ is a multiple of 3, $n = \mathbb{Z}$

Numbers on either side → $3n+1$, $3n-1$

Difference of their squares: $(3n+1)^2 - (3n-1)^2 =$

$(9n^2+6n+1) - (9n^2-6n+1) =$

$12n$

In relation to $3n$, $12n$ is 4 times bigger

$5n$ is a multiple of 5, $n = \mathbb{Z}$.

Side → $5n+1$, $5n-1$

Difference ⇒ $(5n+1)^2 - (5n-1)^2 =$

$20n$

In relation to $5n$, $20n$ is 4 times bigger.

SAME RELATIONSHIP