## PROOF:MULTIPLES OF FOUR

Any multiple of 4 can be thought of as 4 equal length 'sticks'.


These four sticks can form a square frame which is: a larger square subtract a smaller square in the centre.


$$
(n+1)^{2}-(n-1)^{2}=4 n
$$

This works for any value of $n$, so all multiples of 4 can be expressed as the difference of two squares.

