

Algebraic proof

Exit ticket ANSWERS Name _____

- 1 Prove that the sum of three consecutive even numbers is a multiple of 6.

$$2n + 2n + 2 + 2n + 4 = 6(n + 1)$$

- 2 Prove that $(n + 3)^2 - n^2$ is a multiple of 3.

$$6n + 9 = 3(2n + 3)$$

- 3 Lucy checks $3 + 4 + 5$ and $10 + 11 + 12$. She says this proves the sum of three consecutive whole numbers is a multiple of 3. Explain why this is not a proof.

Only two examples, not every number

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