

Ways to represent different types of numbers in mathematical proofs:

$n \Rightarrow$  any integer

$2n \Rightarrow$  any even integer

$2n+1 \Rightarrow$  any odd integer

$m \Rightarrow$  a different (any) integer

$2m \Rightarrow$  a different even integer

$2m+1 \Rightarrow$  a different odd integer

Consecutive integers:  $n, n+1, n+2$  etc

Consecutive even integers:  $2n, 2n+2, 2n+4$  etc.

Consecutive odd integers:  $2n+1, 2n+3, 2n+5$  etc.