$egin{aligned} ext{Notation Example(s)} \end{aligned}$	We say in English
x_1,\ldots,x_n	A sequence x_1 to x_n
$\sum_{i=1}^{n} x_i \text{ or } \sum_{i=1}^{n} x_i$	The sum of the terms of the sequence x_1 to x_n
2	The (set of all) real numbers (numbers on the number line)
7.4	The (set of all) integers (whole numbers including negatives, zero, and positives)
7+	The (set of all) strictly positive integers
1	The (set of all) natural numbers. Note : we use the convention that 0 is a natural number.
$f(x) = \begin{cases} x & \text{if } x \ge 0 \\ -x & \text{if } x < 0 \end{cases}$	Define f of x to be x when x is nonnegative and to be $-x$ when x is negative
C(7)	f of 7 or f applied to 7 or the image of 7 under f
f(z)	f of z or f applied to z or the image of z under f
f(g(z))	f of g of z or f applied to the result of g applied to z
-3	The absolute value of -3
/9	The non-negative square root of 9
	$f(x) = \begin{cases} x & \text{if } x \ge 0 \\ -x & \text{if } x < 0 \end{cases}$