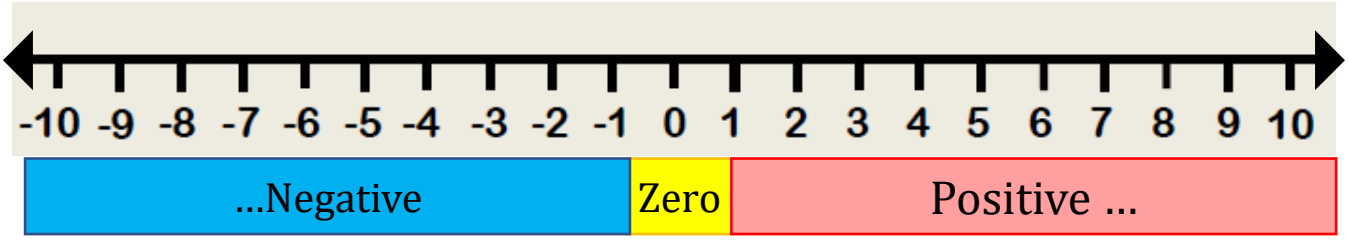
Year 7 Mathematics | Directed Number

Negative numbers are used to represent quantities below zero.

Examples: Temperature Finance (profit/loss/debt) Above/below sea level



$\mathbb{Q}$ – Rational Numbers#
e.g. $\frac{1}{2}, -\frac{2}{3}, \frac{17}{5}$

$\mathbb{Z}$ – Integers*
... , -3, -2, -1, 0, 1, 2, 3, 4, ...

$\mathbb{N}$ – Natural Numbers
1, 2, 3, 4, ...

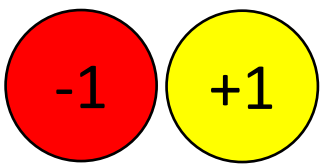
FUN FACTS!
#Q is used for rational numbers because it represents 'quotient' which means division

**Z is used for integer because is comes from 'zahl', meaning number, in German*

To enter a negative number, press...

-8 **is written as** (-8)

Zero Pairs



$-1 + 1 = 0$
$1 + -1 = 0$

Adding a negative number *is the same as...*

Subtracting a negative number *is the same as...*

Order of Operations

Groupings	**E**xponents (Powers & Roots)	**M**ultiply Divide	**S**ubtract Add
		(left to right)	*(left to right)*
Brackets: ( ) [ ] { }	Square ^{2} Square root $\sqrt{\ }$ Cube ^{3} Cube root $\sqrt[3]{\ }$	$\times$ $\div$	$+$ $-$