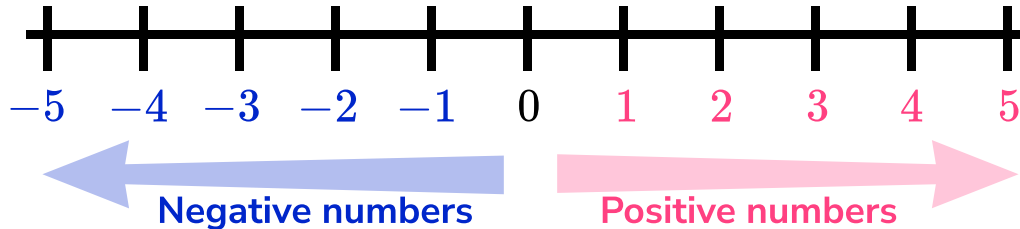


Negative Numbers

Negative numbers are any numbers less than zero. They have a negative or minus sign (—) in front of them.

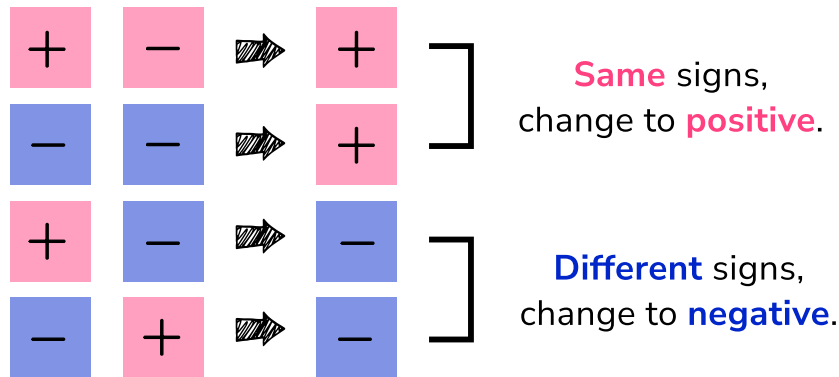
Numbers greater than zero are called **positive numbers**. If there is no sign in front of a number, the number is positive.



Zero is neither positive nor negative.

Adding and Subtracting Negative Numbers

When **adding and subtracting negative numbers**, we need to look carefully at signs that are **next to each other**.



 **Example**

Work out $-3 + -2$

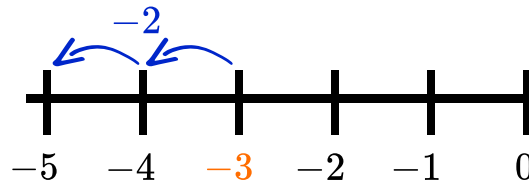
We start
at -3

$$-3 + -2 = -3 - 2 = -5$$

We are **adding negative 2**, which
is the same as just **subtracting 2**



We can use a
number line
to help.



Multiplying and Dividing Negative Numbers

When **multiplying and dividing negative numbers**, we look at the signs of each of the numbers in the calculation.

+	×	+	→	+] Same signs, answer is positive .
-	×	-	→	+	
+	×	-	→	-] Different signs, answer is negative .
-	×	+	→	-	

 **Example**

Work out 3×-5

There is no sign
so this number is
positive.

$$3 \times -5 = -15$$

Different signs so
the answer is **negative**.

 **Example**

Work out $-20 \div -4$

$$-20 \div -4 = 5$$

Same signs so
the answer is **positive**.