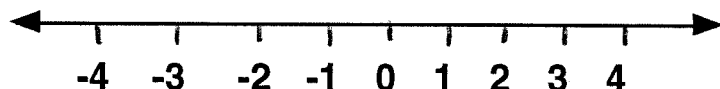


Integers

Include positive and negative numbers, as well as zero.
Decimals and fractions are not integers.

$$I = (\dots -3, -2, -1, 0, 1, 2, 3 \dots)$$

Integer number lines



*Numbers on the left are smaller than the numbers to the right.

eg. $-3 < -1$

Adding Integers

1. If the sign of the numbers are the same, add them together and keep the common sign.

eg. $-6 + -8 = -14$

2. If the sign of the numbers are different, find the difference between them and keep the sign of the number with the highest "face value".

eg. $-7 + 8 = 1$

Subtracting Integers

To subtract an integer add the opposite. This is called the additive inverse.

eg. $-6 - -5$ becomes $-6 + +5$ which equals -1

eg. $10 - -7 = 10 + 7 = 17$

eg. $3 - 20 = 3 + -20 = -17$

Multiplying and Dividing Integers

Product or quotient of two unlike signs is always negative and the product or quotient of two like signs is always positive.

eg. $5 \times 10 = 50$

eg. $-4 \times -6 = 24$

eg. $-12 \times 3 = -36$