

INTEGERS

To add integers with the same sign (both positive or both negative), add their absolute values and use the same sign.

For example: $(-6)+(-11)$. Both are negative, and $6+11=17$, so the answer is -17

To add integers of opposite signs, find the difference of their absolute values and then take the sign of the 'larger' number.

For example: $6+(-11)$. $11-6=5$. 11 is the 'larger' number, and it has a negative sign, so the answer is -5.

To subtract an integer, add its additive inverse. For example, $6-11=6+(-11)=-5$

The rules for multiplying and dividing integers are:

Positive \times Positive = Positive

Positive \times Negative = Negative

Negative \times Positive = Negative

Negative \times Negative = Positive