adding and subtracting positive and negative

# INTEGERS

## Adding Integers of the same sign

$10 + 5 =$ *or* $(-5) + (-7) =$

find the absolute value of each number

$|10| + |5| =$ $|-5| + |-7| =$

add the absolute value of each number

$10 + 5 = 15$ $5 + 7 = 12$

the result gets the same sign as the addends

$= 15$ $= -12$

## Adding Integers of opposite signs

$-12 + 8 =$ *or* $6 + (-7) =$

find the absolute value of each number

$|-12| + |8| =$ $|6| + |-7| =$

subtract the smaller absolute value from the larger

$12 - 8 = 4$ $7 - 6 = 1$

the result gets sign from the larger absolute value

$= -4$ $= -1$

## Subtracting Integers

$11 - (-7) =$ *or* $-9 - (-3) =$

convert the subtracted number to it's opposite

$11 + 7 =$ $-9 + 3 =$

add the numbers

$11 + 7 = 18$ $-9 + 3 = -6$