## ADDITION

(+)

## Simple Rules for Signs

## SUBTRACTION

(-)

## OPPOSITE SIGNS:

(- + ) OR (+ - )

* Subtract the smaller number from the larger number and keep the sign of the larger number.


We subtracted $\underline{5}$ from 8
The larger number is negative; therefore, the answer is negative.

> SAME SIGNS:
> $(--)$ OR $\quad(++)$.

* Add the numbers and keep the same sign.


## Example:

Same signs, so aad.

## Addition / Subtraction

## OPPOSITE SIGNS

$$
(-+) \text { OR }(+-) \Rightarrow \begin{aligned}
& \text { Subtract the smaller number } \\
& \text { from the larger number, and } \\
& \text { keep the sign of the larger \#. }
\end{aligned}
$$

## SAME SIGNS

$$
(--) \text { OR }(++) \Rightarrow \begin{aligned}
& \text { Add the numbers, and } \\
& \text { keep the sign that they } \\
& \text { have in common. }
\end{aligned}
$$

## Examples with answers:

$$
\begin{aligned}
-7-9 & =-16 \\
7+9 & =16 \\
-11 x-4 x & =-15 x \\
x^{2}+9 x^{2} & =10 x^{2} \\
8 q+14 q & =22 q \\
-3 r s-20 r s & =-23 r s \\
-10 w-2 w-w & =-13 w
\end{aligned}
$$

Beginning with the first two terms,
notice that the numbers 10 and 2 have the same sign (negative in this case), so add to get -12 .

Working two terms at a time,
note that the numbers 4 and subtract to get -1

The opposite-signed numbers
-1 and +7 will subtract, resulting in the solution +6 t.

