Combining terms with positive and negative numbers can be visually shown using positive and negative counters.


## Step 1

Identify the terms:
positive or negative.

## Step 2

Draw positive $\oplus$ and negative $\Theta$ counters for each term.

## Step 3

Combine the terms.

2a. 2-4

1b. $-3+2$
2b. $-5+7$

2c. -3-2
1c. -4-4

Combining terms with positive and negative numbers can be done quickly using the following processes:

## If the terms have different signs then

1. Subtract the values.
2. Keep the sign of the "greatest" value.

$$
10-25=-15
$$

"different signs"

1. Subtract the values.
"25-10 = 15"
2. Keep the sign of the "greatest" value.
"Keep the negative, because the negative value is the greatest."

If the terms have the same sign then

1. Add the values.
2. Keep the sign.
$-10-40=-50$
"same signs, negative"
3. Add the values.
$" 10+40=50 "$
4. Keep the sign.
"Keep the sign negative."

## Step 1

Determine which process to use.

## Step 2

Combine the terms.
Different Signs: Subtract and keep "greatest" sign.

Same Signs: Add and keep the sign.

$$
\text { 3c. }-10 n-10 n
$$

4c. $10 r-30 r$

## Step 1

Determine which process to use.

## Step 2

Combine the terms.
Different Signs: Subtract and keep "greatest" sign.

Same Signs: Add and keep the sign.
5. $-10 x+12 x-15 x+4$
6. $-12 x+11-9 x-8$

Read and solve the following problems.


Enter the value of

$$
-14+9-7
$$

$\checkmark$ Enter the value of

$$
-5-8 n+2-3 n
$$

