## Adding Integerswith Tiles

Recall that +1 and -1 combine to make a zero pair. We can use algebra tiles to model the addition of any two integers. There are three situations that can come up:

## Case 1: Adding Two Positive Integers

Example: $(+4)+(+3)$

1. M odel each integer with tiles:

2. Combine the tiles:


There are 7 yellow tiles so they model +7 . We can write the addition equation like this: $(+4)+(+3)=+7$

## Case 2: Adding One Positive and One Negative Integer

Example: $(+5)+(-2)$

1. M odel each integer with tiles:
+5 : $\square$

$\square$ -2 :

2. Circle the zero pairs.


There are two zero pairs. Three yellow tiles are left, so the solution is +3 .

## Case 3: Adding Two Negative Integers

Example: (-4) +(-5)

1. M odel each integer with tiles:

2. Combine the tiles:


There are 9 red tiles, so they model -9.

