

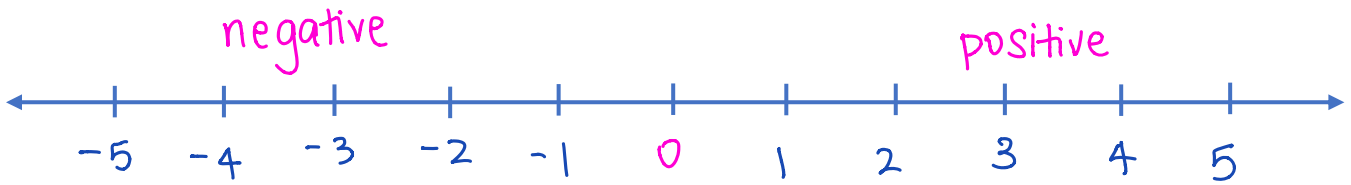
Name: _____

Date: _____

Learning Goal 1.1	I can add and subtract integers.
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Whole Numbers
0, 1, 2, 3, 4, ...

versus Integers
..., -2, -1, 0, 1, 2, ...

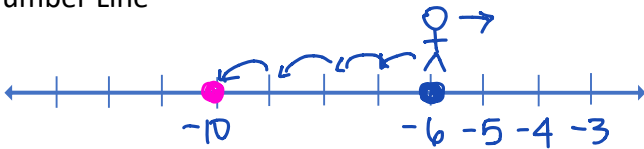


Adding move to the right
Subtracting move to the left.

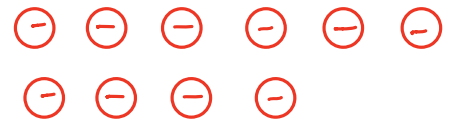
Example Find the following **sums** by modelling the equation.

a. $(-6) + (-4) = -10$

Number Line

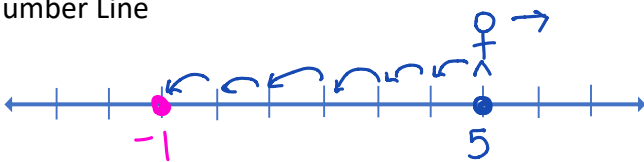


Counters

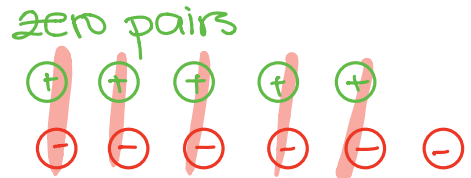


b. $5 + (-6) = -1$

Number Line

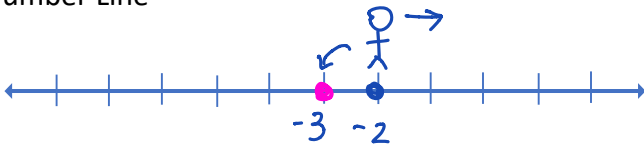


Counters

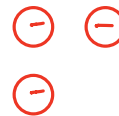


c. $(-2) + (-1) = -3$

Number Line

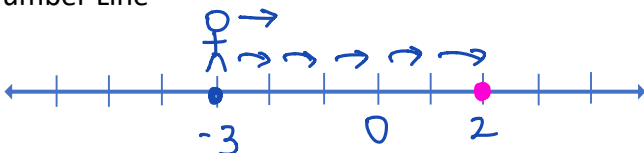


Counters

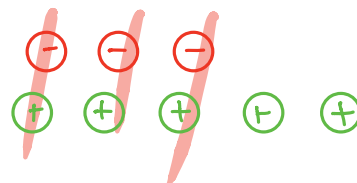


d. $(-3) + 5 = 2$

Number Line



Counters



Adding Integers

When adding two integers using a **number line**, mark the first integer on the number line.

- When adding a **positive** \leftarrow move forward \Rightarrow move to the right

\uparrow
facing right

- When adding a **negative** \leftarrow move backward \Rightarrow move to the left

\uparrow
facing right

When adding two integers using **counters**, start with the first integer counters.

- When adding a **positive**
add in positive counters, remove zero pairs.

- When adding a **negative**

add in negative counters, remove zero pairs.

} count
remaining
counters

Models are - time consuming

- they're good for learning a concept, but after a while they're too much work!

Example Find the following **sums** without modelling.

a. $(-6) + (-4) = -10$

b. $(-6) + 4 = -2$

c. $(-10) + 12 = 2$

d. $23 + (-21) = 2$

e. $(-10) + (-7) = -17$

f. $(-9) + (-4) + 13$

$$= (-13) + 13$$

$$= 0$$

