

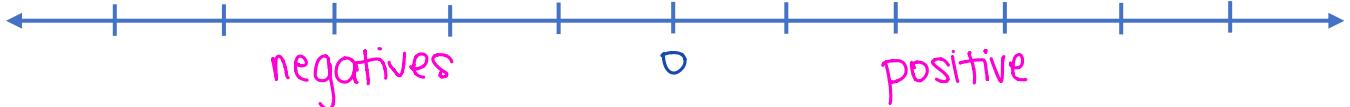
Name: _____

Date: _____

Learning Goal 1.1

I can add and subtract integers.

Adding move to the right



Subtracting move to the left

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

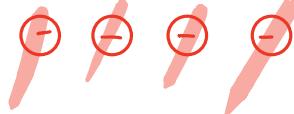
a. $7 - 3 = 7 - (+3) = 4$



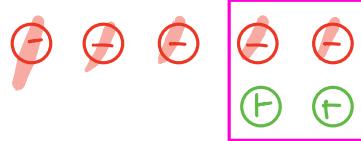
b. $6 - 4 = 6 - (+4) = 2$



c. $(-4) - (-4) = 0$

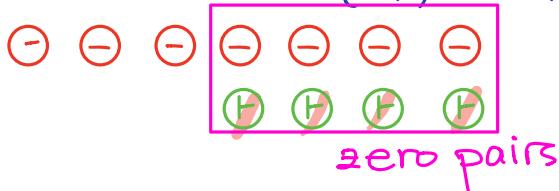


d. $(-3) - (-5) = 2$

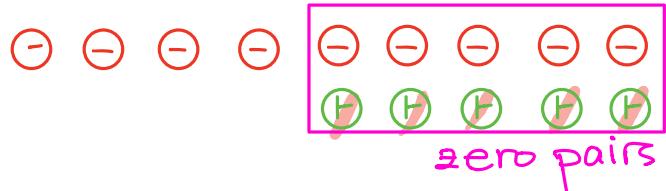


zero pairs - haven't changed the overall value.

e. $(-3) - 4 = -3 - (+4) = -7$



f. $(-4) - 5 = (-4) - (+5) = -9$



Subtracting Integers

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

- When subtracting a **positive**, add zero pairs until there are enough positive counters to remove.
- When subtracting a **negative**, add zero pairs until there are enough negative counters to remove.

Again, models are **tricky, time consuming, irritating ...**

When subtracting a negative, **adding a positive** \Rightarrow always increasing in value.

When subtracting a positive, **adding a negative** \Rightarrow always decreasing in value.

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

a. $(-6) - (-4) = -2$

b. $7 - (-8) = 15$

c. $(-10) - 8 = -18$

d. $-5 - (-14) = 9$

e. $(-12) - 7 = -19$

f. $30 - (-6) = 36$

g. $11 - 12 - (-13) = (-1) - (-13)$
 $= 12$

h. $63 - (-9) - 80 = 72 - 80$
 $= -8$