

Name/Nombre: \_\_\_\_\_ Date/Fecha: \_\_\_\_\_

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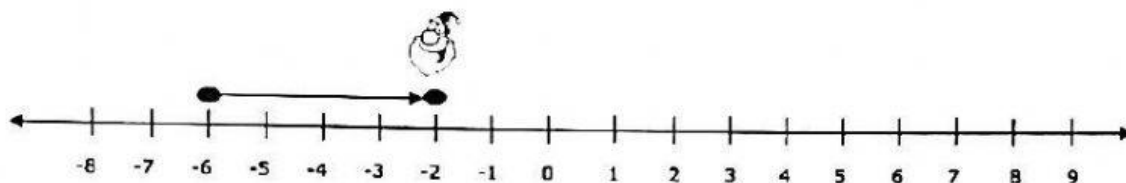
## Subtracting Integers

\* Modeling subtracting integers on a number line

- ❖ Step 1: Plot Beginning location.
- ❖ Step 2: Make face to look at the LEFT.
- ❖ Step 3: Move \_\_\_\_\_ OR \_\_\_\_\_.

Example: modeling  $-6 - (-4)$  on a number line

- Step 1: Locate  $-6$  on the number line for a man's beginning location.
- Step 2: Subtraction sign  $(-)$  means the man has his face to look at the left.
- Step 3:  $-4$  is negative so he walks BACKWARD by 4 units. That is, count 4 units to the right of  $-4$ , which is  $-2$ .



\* Rule of subtracting integers: "Same/Change/Change (SCC)"

- ❖ Step 1: the first number stays the same,
- ❖ Step 2: change subtraction  $(-)$  to addition  $(+)$
- ❖ Step 3: change the sign of the second number:
  - Positive changes to negative
  - Negative changes to positive.
- ❖ Once you have applied this rule, follow the rules for adding integers.

Example: Use the rule to find the sum.

$$\begin{array}{ccc} & -6 - (-5) = & \\ \swarrow & \searrow & \searrow \\ \text{Same} & \text{Change} & \text{Change} \\ -6 & + & +5 \end{array}$$

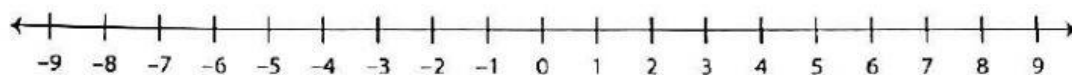
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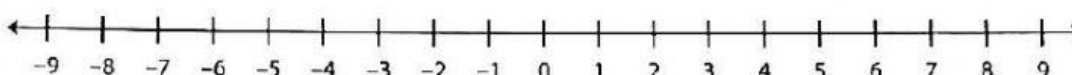
## DO NOW!

1. Use number line to find the sum.

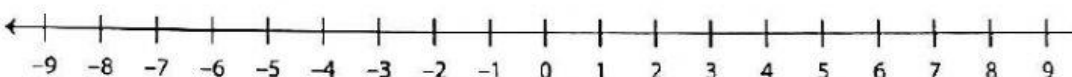
(1)  $1-10 =$  \_\_\_\_\_



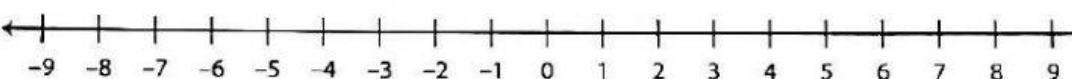
(2)  $0-(-7) =$  \_\_\_\_\_



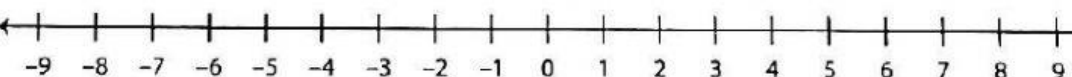
(3)  $-6-2 =$  \_\_\_\_\_



(4)  $-8-(-3) =$  \_\_\_\_\_



(5)  $2-(-4) =$  \_\_\_\_\_



2. Use the rule of subtracting integers to find the difference.

(1)  $-13-(-5)=$  \_\_\_\_\_ (2)  $-9-16=$  \_\_\_\_\_ (3)  $7-(-11)=$  \_\_\_\_\_

(4)  $(-18)-14=$  \_\_\_\_\_ (5)  $-10-(-10)=$  \_\_\_\_\_ (6)  $15-2=$  \_\_\_\_\_

(7)  $8-(-12)=$  \_\_\_\_\_ (8)  $-20-9=$  \_\_\_\_\_ (9)  $-8-(-14)=$  \_\_\_\_\_

(10)  $5-19=$  \_\_\_\_\_ (11)  $18-(-4)=$  \_\_\_\_\_ (12)  $-16-10=$  \_\_\_\_\_