

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

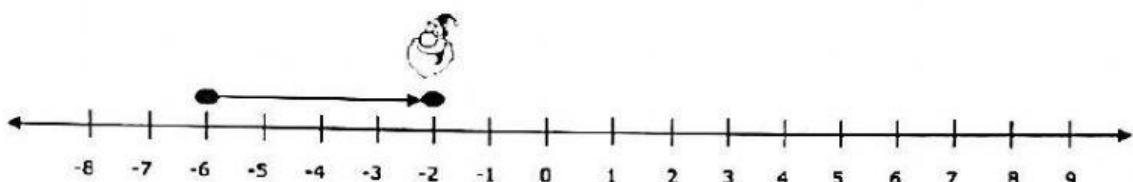
FCTG

## 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.

$$\begin{array}{r} -6 - (-5) = \\ \downarrow \quad \downarrow \quad \downarrow \\ \text{Same} \quad \text{Change} \quad \text{Change} \\ -6 \quad + \quad +5 \end{array}$$

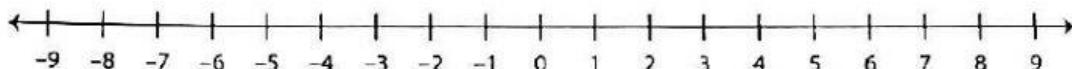
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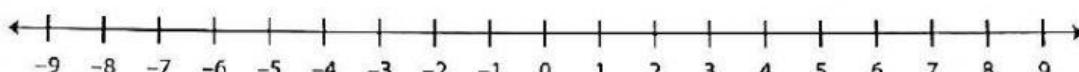
## DO NOW!

1. Use number line to find the sum.

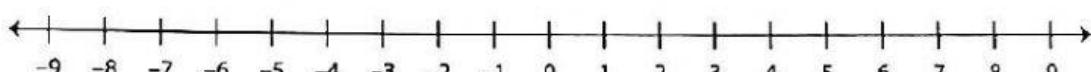
(1)  $1-10 = \underline{\hspace{2cm}}$



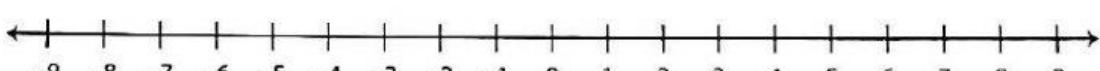
(2)  $0-(-7) = \underline{\hspace{2cm}}$



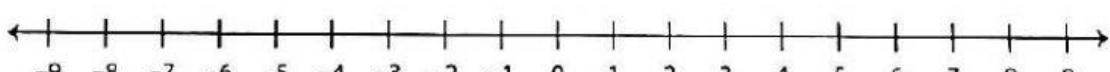
(3)  $-6-2 = \underline{\hspace{2cm}}$



(4)  $-8-(-3) = \underline{\hspace{2cm}}$



(5)  $2-(-4) = \underline{\hspace{2cm}}$



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

(1)  $-13-(-5) = \underline{\hspace{2cm}}$

(2)  $-9-16 = \underline{\hspace{2cm}}$

(3)  $7-(-11) = \underline{\hspace{2cm}}$

(4)  $(-18)-14 = \underline{\hspace{2cm}}$

(5)  $-10-(-10) = \underline{\hspace{2cm}}$

(6)  $15-2 = \underline{\hspace{2cm}}$

(7)  $8-(-12) = \underline{\hspace{2cm}}$

(8)  $-20-9 = \underline{\hspace{2cm}}$

(9)  $-8-(-14) = \underline{\hspace{2cm}}$

(10)  $5-19 = \underline{\hspace{2cm}}$

(11)  $18-(-4) = \underline{\hspace{2cm}}$

(12)  $-16-10 = \underline{\hspace{2cm}}$