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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.

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

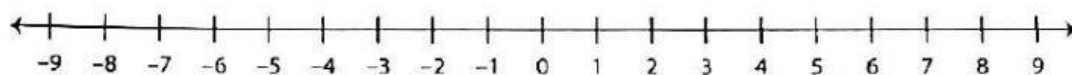
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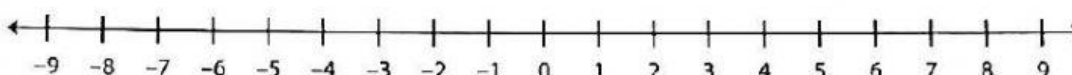
DO NOW!

1. Use number line to find the sum.

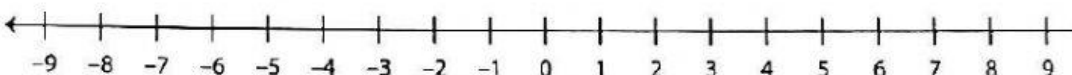
(1) $1-10 =$ _____



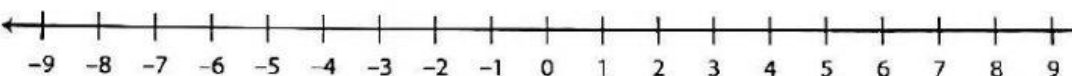
(2) $0-(-7) =$ _____



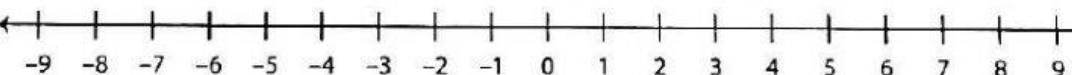
(3) $-6-2 =$ _____



(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) $-16-10=$ _____