

Name/Nombre: _____ Date/Fecha: _____

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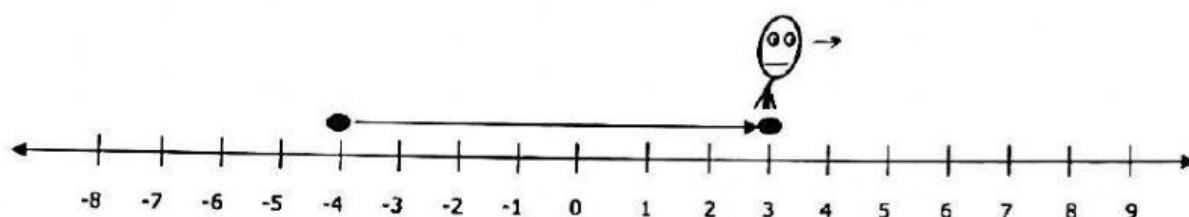
Adding integers

* Modeling adding integers on number lines

- ❖ Step 1: Plot Beginning location.
- ❖ Step 2: Make face to look at the RIGHT.
- ❖ Step 3: Move _____ OR _____.

Example: Modeling $-4 + 7$ on a number line

- Step 1: Locate -4 on the number line for a man's beginning location.
- Step 2: Addition sign (+) means the man has his face to look at the right.
- Step 3: Since 7 is positive then he walks FORWARD by 7 units. That is, count 7 units to the right of -4 , which is 3.



* Rules of adding Integers

- ❖ Rule 1: If the signs of numbers are the same, ADD the absolute value of the numbers and keep the same sign.

Example: (1) $4+5 = 9$ (2) $-4 + (-5) =$

- ❖ Rule 2: If the signs are different, SUBTRACT the absolute value of the numbers and take the sign of the number with bigger absolute value.

Example: (1) $-4+5=$ (2) $4+(-5)=$

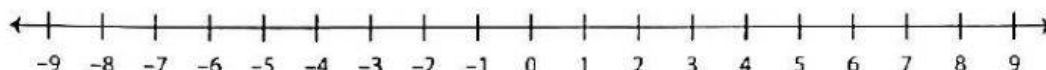
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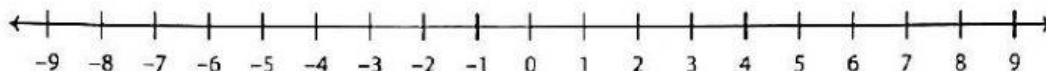
DO NOW!

1. Use number line to find the sum.

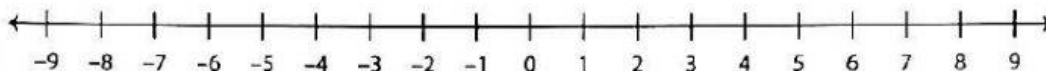
(1) $4 + (-5) =$ _____



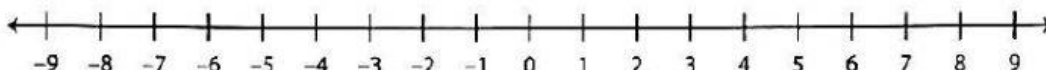
(2) $-7 + 2 =$ _____



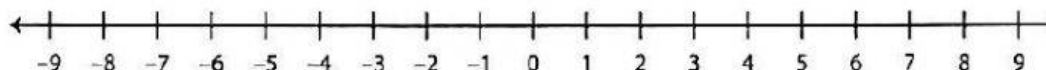
(3) $-3 + (-4) =$ _____



(4) $3 + (-11) =$ _____



(5) $-5 + (-6) =$ _____



2. Use the rule of adding integers to find the sum.

(1) $17 + (-19) =$ _____

(2) $-11 + 4 =$ _____

(3) $-7 + (-10) =$ _____

(4) $4 + (-16) =$ _____

(5) $(-12) + 14 =$ _____

(6) $15 + 9 =$ _____

(7) $-12 + 14 =$ _____

(8) $-18 + (-5) =$ _____

(9) $-20 + 11 =$ _____

(10) $13 + (-9) =$ _____

(11) $-8 + 16 =$ _____

(12) $(-1) + (-14) =$ _____