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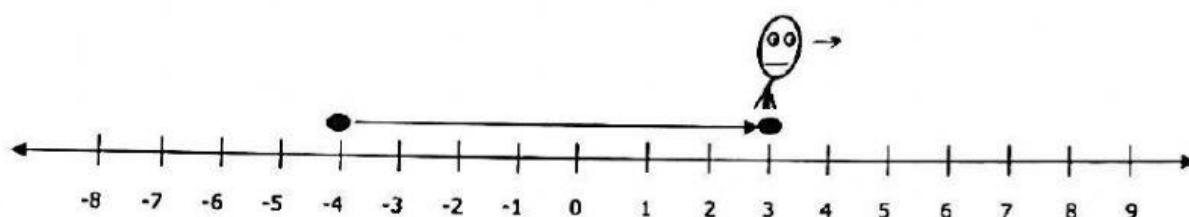
Adding integers

* <u>Modeling</u> adding integers on number lines
❖ Step 1: Plot Beginning location.
❖ Step 2: Make face to look at the <u>RIGHT</u>.
❖ 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 <u>positive</u> then he walks <u>FORWARD by 7 units</u>. That is, count 7 units to the right of −4, which is 3.

* <u>Rules</u> of adding Integers
❖ <u>Rule 1</u>: If the <u>signs of numbers are the same</u>, <u>ADD</u> the absolute value of the numbers and <u>keep the same sign</u>.

Example: (1) 4+5 = 9   (2) −4 +(−5) =

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

Example: (1) −4+5=   (2) 4+(−5)=
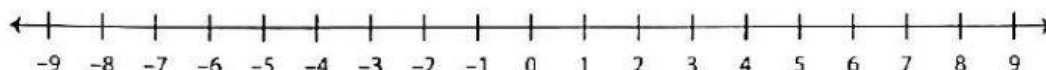
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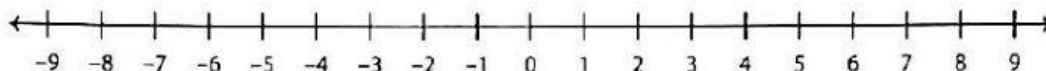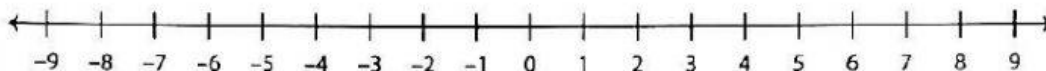
DO NOW!

1. Use number line to find the sum.

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

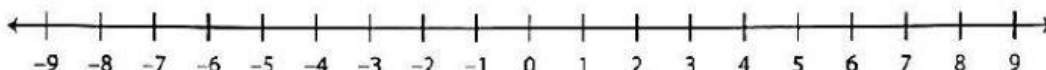
(2) $-7+2 =$ _____
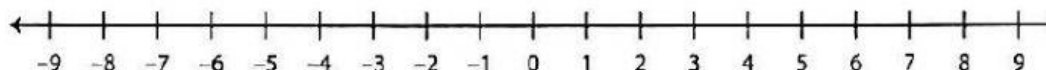

(3) $-3+ (-4) =$ _____

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