1.2

ADDING INTEGERS

DO NOW

1) In your own words, what is the absolute value of an integer?

2) Which expression does not belong with the other three? Explain your reasoning.

|6| 6   -6 |-6|

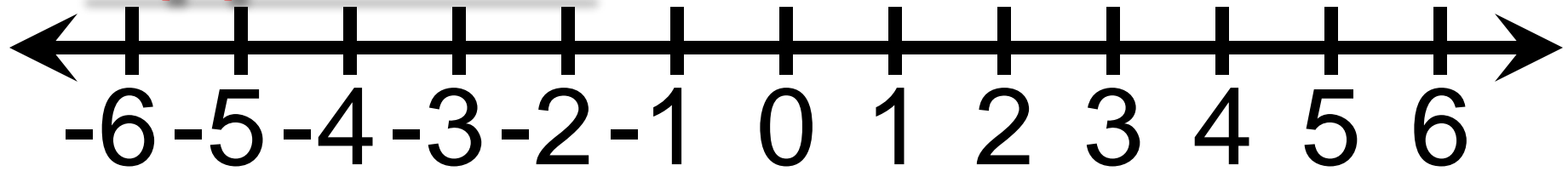# Adding Integers without a number line

3 + 5 =

-1 + (-3) =

-6 + (-2) =

-9+ (-14) =

-12 + (-8) =

<u>SAME SIGN</u>
- _____the signs
- _____ numbers
- Put _____back

Opposites

$$-6 \quad -5 \quad -4 \quad -3 \quad -2 \quad -1 \quad 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6$$

_____ _____ that are the _____

_____ from _____ , but on _____

_____ of _____ .

Examples:

Additive Inverse Property

The _____ of an _____ and its additive inverse, or _____, is _____.

Examples:

a) 6+(-6)=   b) -25+25=

c) a + (-a) =

Adding Integers without a number line

-3 + 5 =

-1 + 6 =

-5 + 9=

5 + (-7) =

8 + (-6) =

14 + (-18) =

DIFFERENT SIGNS

- _____ the signs

- _____

- Put ____ back of number that "looks" the _____

Adding MORE than two integers

Commutative Property

Associative Property

Practice:

a)   7 + 11 + (-11) =

Adding MORE than two integers

Commutative Property

Associative Property

Practice:

b)   -9 + (-4) + 9 =

Practice

1) -9+2 =

2) 5 + (-5) =

3) -12 + (16) =

4) -10 + 19 + 5 =

5) -11 + (-20) + 9 =

6) -7 + 7 + (-8) =