9-14-17

Aim: SWBAT evaluate absolute value and translate expressions.

HW: Textbook Pg. 59 # 21 - 32

Quiz Monday

Do Now: $|x| = 10$. What values can x be?

$x = 10$ or -10

Pg. 59-60 #1-40

① The absolute value of a number is its distance from zero on the number line.

② Two integers are opposites if their sum is zero.

③ $4 > -6$ ④ $-12 < 1$ ⑤ $-9 < -2$ ⑥ $0 > -5$

⑦ $5 > -5$ ⑧ $-17 < 2$ ⑨ $34 > -29$ ⑩ $-20 < -14$

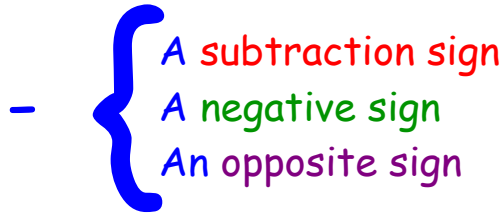
⑪ $-20, -10, 5, 13, 15, 27$ ⑫ $-130, -56, 0, 62, 74, 120$

⑬ $-20, -12, 18, 44, 59, 64$ ⑭ $-301, -155, 121, 262, 278$

⑮ C

⑯ The student ignored the negative sign and literally ordered the numbers.

⑰ 19; -19 ⑱ 8; 8 ⑲ 740; 740 ⑳ 1327; -1327



- When it's a subtraction sign, it separates.

10 - 2 14 - 6 30 - 15

"10 minus 2"

- When it's a negative sign, it comes with the number.

10 - (-2) -14 - 6 -30 - (-15)

10 minus neg. 2 neg. 14 minus 6 neg. 30 minus neg. 15

- When it's an opposite sign, it usually comes in a series or before a group.

- (-3) -(-(-3)) -|-3|

the opp. of -3 the opp. of the opp. of -3 the opp. of the abs. value of -3

3 -3 -3

Simplify.

$|-5|$ $-(-5)$ -5

5 5 -5

$-|-5|$ $-(-(-5))$

-5 -5