Week 2 SAT SLOT Name_____ HR_____

Learning Target: I can solve systems of equations and interpret viable solutions.

Bell Work:

If (x, y) is the solution to the system of equations above, what is the value of x ?

$$2(-3x + 4y = 20)$$
$$+\ 6x + 3y = 15$$

$$3x + 4y = -23$$
$$2y - x = -19$$

What is the solution (x, y) to the system of equations above?

A) $(-5, -2)$
B) $(3, -8)$
C) $(4, -6)$
D) $(9, -6)$

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Bell Work:

In the system of equations above, k is a constant and x and y are variables. For what value of k will the system of equations have no solution?

A) $\frac{12}{5}$
B) $\frac{16}{7}$
C) $-\frac{16}{7}$
D) $-\frac{12}{5}$

The sum of three numbers is 855. One of the numbers, x, is 50% more than the sum of the other two numbers. What is the value of x ?

A) ~~570~~
B) 513
C) ~~214~~
D) ~~155~~

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Bell Work:

In the equations above, b and c are constants.

If b is c minus $\frac{1}{2}$, which of the following is true?

A) x is y minus $\frac{1}{4}$.
B) x is y minus $\frac{1}{2}$.
C) x is y minus 1.
D) x is y plus $\frac{1}{2}$.

Mr. Kohl has a beaker containing n milliliters of solution to distribute to the students in his chemistry class. If he gives each student 3 milliliters of solution, he will have 5 milliliters left over. In order to give each student 4 milliliters of solution, he will need an additional 21 milliliters. How many students are in the class?

A) 16
B) 21
C) 23
D) 26