Today's Plan:

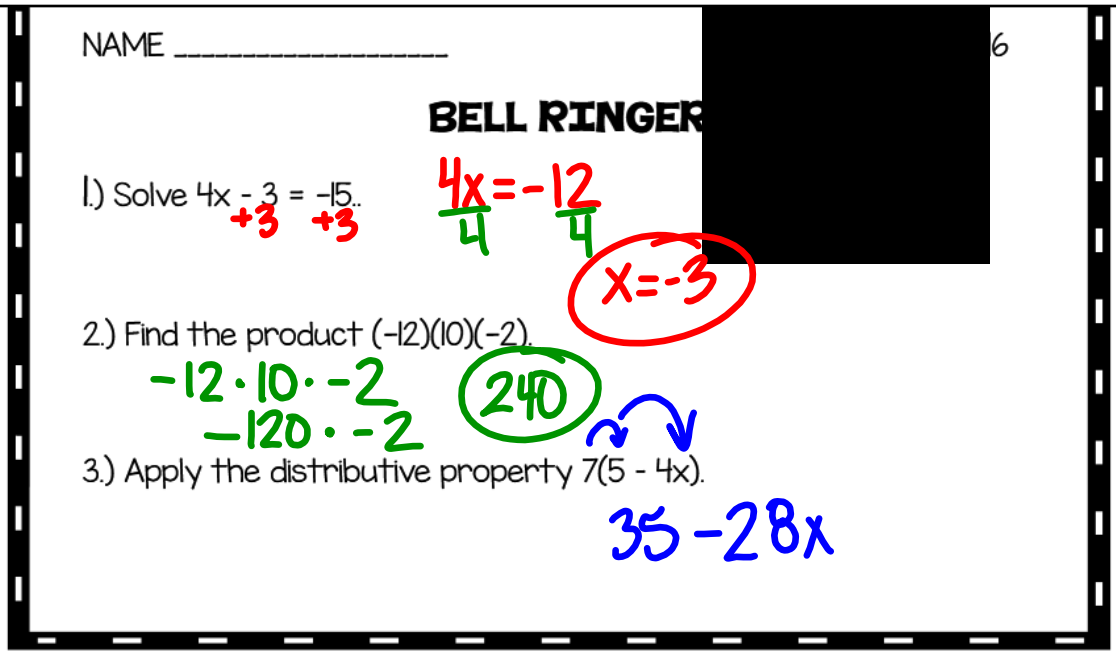
Learning Target (standard): I will represent data through equations, tables and graphs. I will interpret the meaning of each of these as they pertain to the situation. I will solve multi-step equations.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.



Pairs will discuss and put on the board one of the homework problems. They will then complete the next one with the same partner.

- Independent vs. Dependent Variables
- Chart/Table
- Equation (words & symbols)
- Graph with Titles

Kyle can clean his bedroom in 2 hours less time than his sister, Jessica. Use a table, equation, and graph to represent the situation.

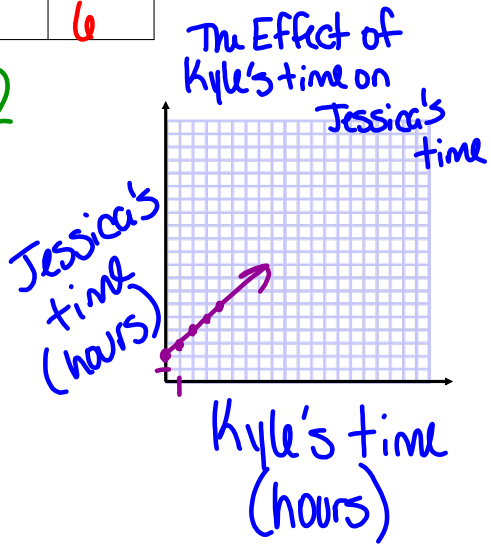
independent - Kyle's time (hours)

dependent - Jessica's time (hours)

X	Y
0	2
1	3
2	4
3	5
4	6

Jessica's Time = Kyle's Time + 2

$y = x + 2$



Solving Equations with Several Steps:

- Simplify each side of the equation first
  - Distribute
  - Clear fractions
  - Combine like terms
- Isolate variable to one side of the equation
  - Add or subtract one of the variables from both sides
- Divide both sides of the equation by the coefficient on the variable

Solve.

$$2\left[\frac{1}{2}x+5=x\right]$$

$$x+10=2x$$
$$-x \qquad -x$$
$$10=x$$

Solve.

$$5(2+n)=3(n+6)$$

$10+5n=3n+18$

$-3n \quad -3n$

$10+2n=18$

$-10 \quad -10$

$2n=8$

$n=4$

Solve.

$$-6(-x-1)=-6x+2(3x-6)$$

$6x+6=-6x+6x-12$

$6x+6=-12$

$6x=-18$

$x=-3$

Solve.

$$3\left[\frac{4n-28}{3}=2n\right]$$

"Clearing the Fractions:"
- Find common denominator
- Multiply entire equation by it

$4n-28=6n$

$-28=2n$

$n=-14$

Assignment:

Solving Equations #1-14

show ALL work

write the problem