Name_____ Date _____ Video #1 Problem Set

Complete the following for the first days of class. If you need to re-watch the video please watch as many times as needed. This should be review material, but come with questions as needed.

Simplify the following.

1. $1 - 50 \div 5^2$
2. $20 - 2(5 - x) + 7$
3. $3^2 - 4\,[(\,8 - (9 - 11)]^2$
4. $15 \div 5 + 2^3 - 8\ \div 4$
5. Label the following as rational or irrational numbers
   a) -52 b) $\sqrt{13}$ c) $\frac{4}{7}$ d) 3.29174046784(

Solve the following for the given unknown variable:

6. $4(x + 3) - 2 = 3x - 1$
7. $54 = 7x - 9$

8. $12x - (4x + 10) = 54$

9. $\frac{4}{5}(x + 7) = 20$

Transforming equations- isolate the given variable:

10. $4y - x = 20 - y \quad solve\ for\ y$

11. C = $\frac{5}{9}(F - 32) \quad solve\ \ for\ F$

12. m = $\frac{x+y}{2}$ solve for x

13. $\ln = a + d(n - 1) \quad sovel\ for\ n$