Homework 11/18

	Expression	Equation	Inequality
1) Contains an equal sign	✓	✓	
2) Cannot be 'solved'	✓		
3) ~~$x+1$~~ $3x+6$	✓		
4) ~~1~~ $3x+6=14$		✓	
5) Has multiple solutions			✓
6) ~~$12>8$~~ $20>x$			✓
7) Can contain numbers	✓	✓	✓
8) A mathematical sentence		✓	✓
9) ~~10~~ $10^3+9+2^0\times6^1$	✓		
10) ~~$3=12-8$~~ 18	✓		
11) Can contain variables	✓	✓	✓
12) Can be compared to a scale	✓	✓	✓
13) A mathematical phrase	✓		✓
14) ~~$x\geq9$~~ $12\leq x+4$			
15) ~~$x+8<37-2$~~ $x+4$	✓		

Homework 11/18

	Exp.	Eq	Ineq
12) Can be compared to a scale			
13) A mathematical phrase			
14) $x\geq9$			
15) $x+8<37-2$			
16) Like a balanced scale		✓	
17) ~~$7+1$~~ $x+9>12$		✓	
18) ~~$7+1=8$~~ $x+9$	✓		
19) $7+1\geq8$ $x+9\geq4$			✓
20) Can contain operation symbols (+,-,x,÷)	✓	✓	✓
21) $\frac{3}{4}+7$ ~~$(2x+8)$~~ $+18$	✓		
22) ~~$5=x-10$~~ $x+2=18$		✓	
23) ~~5~~ 14	✓		
24) Usually has one solution		✓	
25) Like an unbalanced scale			✓

$14 \stackrel{?}{=} 14$ Identify Solution Sets

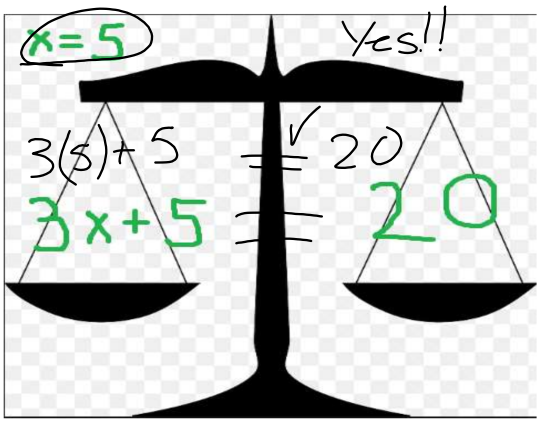
With algebraic equation or inequality can we determine if a given value is a solution? "Does it make the statement true?"

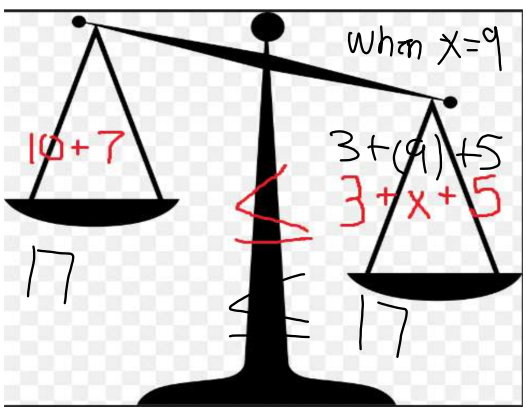
$9+5 \quad 3x+5 \stackrel{?}{=} 14$ when $x=3$

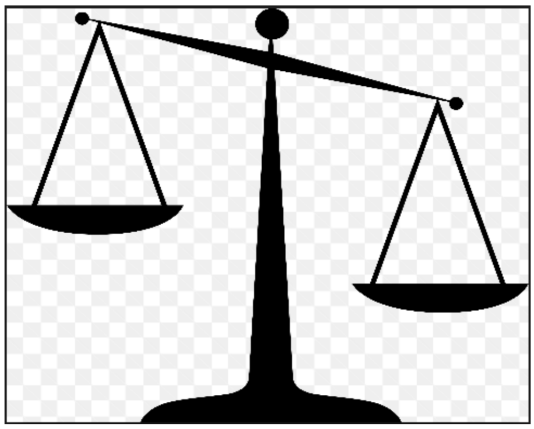
$3(3)+5$

What is the next step after identifying Solutions????

solving Equations







Is $w+8+6w-3 \leq 5$, when $w=0$??

Does $79-8*j = 34+j$, when $j=5$???

$79 - 8(5) \stackrel{?}{=} 34 + (5)$

$79 - 40 \quad 39$

$39 \stackrel{?}{=} 39$

Sill ☺

Solving Equations
(Keeping the scale balanced)

$g + 1 = 44$

$g + 1 - 1 = 44 - 1$

$g = 43$