Cornell Notes

Topic: **Solving Equations Using Addition and Subtraction Lesson 7.2**

Name: _____
Date: _____
Period: _____

Essential Question: How can you use addition or subtraction to solve an equation?

Questions/Main Ideas:	Notes:
Vocabulary	**Solution**- a value that makes the equation true
	Inverse operation- "undo" each other
	Addition Property of Equality- When you add the same number to each side of an equation, the two sides remain equal. **(BALANCED)**
	Subtraction Property of Equality- When you subtract the same number from each side of an equation, the two sides remain equal. **(BALANCED)**
Example 1	**Checking Solutions**
	a.) p + 10 = 38; **p = 18**
	18 + 10 = 38
	28 = 38
	28 ≠ 38
	Work out the expression side first and compare it to the answer in the problem.
	b.) 4y = 56; **y = 14**
Your Turn!	1.) a + 6 = 17; a = 9 2.) 9 – g = 5; g = 3
	3.) 35 = 7n; n = 5 4.) q/2 = 28; q = 14

Example 2	**Solving Equations Using Addition**		
	a.) Solve x - 2 = 6	b.) Solve 18 = x – 7	
	X - 2 = 6	18 = x – 7	
Inverse Operation	+ 2 +2	+ 7 = + 7	
	X = 8	25 = x	
Your Turn!	5.) k – 3 = 1	6.) n – 10 = 4	7.) 15 = r – 6
Example 3	**Solving Equations Using Subtraction**		
	a.) Solve x + 2 = 9	b.) Solve 26 = 11 + x	
	X + 2 = 9	26 = 11 + x	
Inverse Operation	- 2 - 2	-11 -11	
	X = 7	15 = x	
Your Turn!	8.) s + 8 = 17	9.) 9 = y + 6	10.) 13 + m = 20
Summary: **Students should write a summary reflecting the above essential question.**			