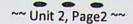
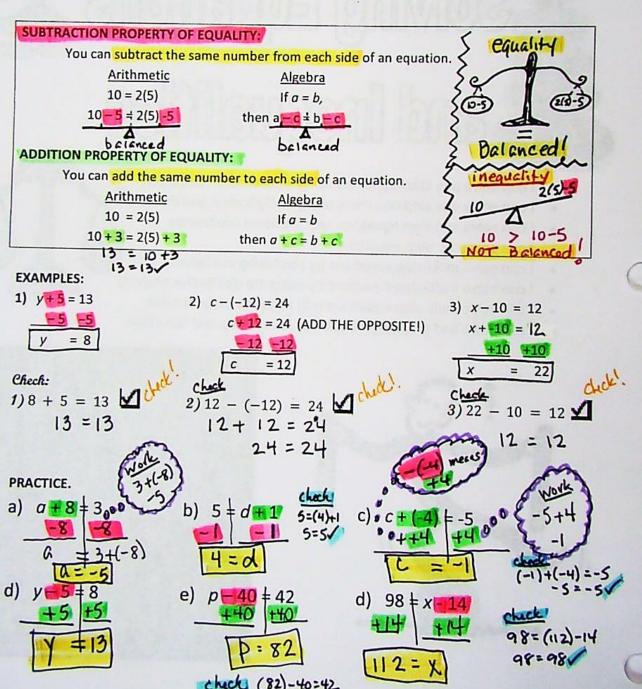
# UNIT 2: EQUATIONS & INEQUALITIES



Objectives: I can solve one-step equations using addition and subtraction.

## **SOLVING EQUATIONS BY ADDING OR SUBTRACTING**

When you solve an equation, the goal is to get the variable alone. The value on the other side of the variable tells you the solution the original equation. You use inverse operations which undo each other, to get the variable alone. (Remember that, in previous math classes, you used related equations like 3 + 5 = 8 and 8 - 3 = 5. These equations show that addition and subtraction undo each other.)



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### **Applying Solving Equations**

When translating words in sentences, you can write equations to be solved. This skill will enable you to solve more complex word problems. Let's review some words and their corresponding math symbols. Make a list of words that correspond with the given symbol

+1		* 7	4	VEIN
Addition	Subtraction	Multiplication	Division ,	
Sum	difference	product	quotient	equals
plus	minus	times	divide	now has
tdded fo	Subtract	multiply	shared equally	7,000
nore than	less than	multiply by	Per	my
ncreasedby	decreased by	dauble (+2)	group	4:53
total profit	1055	triple (+3) quadruple(+4)	( ( )	2153
	debt withdraw	0'	third (+3)	Zws
deposit gain	spent	07	quarter (+4)	I am a market

#### PRACTICE

Write an equation for each sentence. You may have to choose your own variable.

1) The sum of 63 and some number, x, is -82. Find the number.

② Sixty-eight is ninety-seven less than a number. Find the number.

3 Fifty-seven is 19 more than some number. Find the number.

(4) A number decreased by 16 is +26. Find the number.

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y = 16 = -26 3 After buying has 24 more bracelets, Tasha now has 137. How many did Tasha use to have?

Sarah spent \$28.50 of her savings. She now has \$42. Previously how much did Sarah have in

$$x = 28.50 = 42$$

X-28.50742

