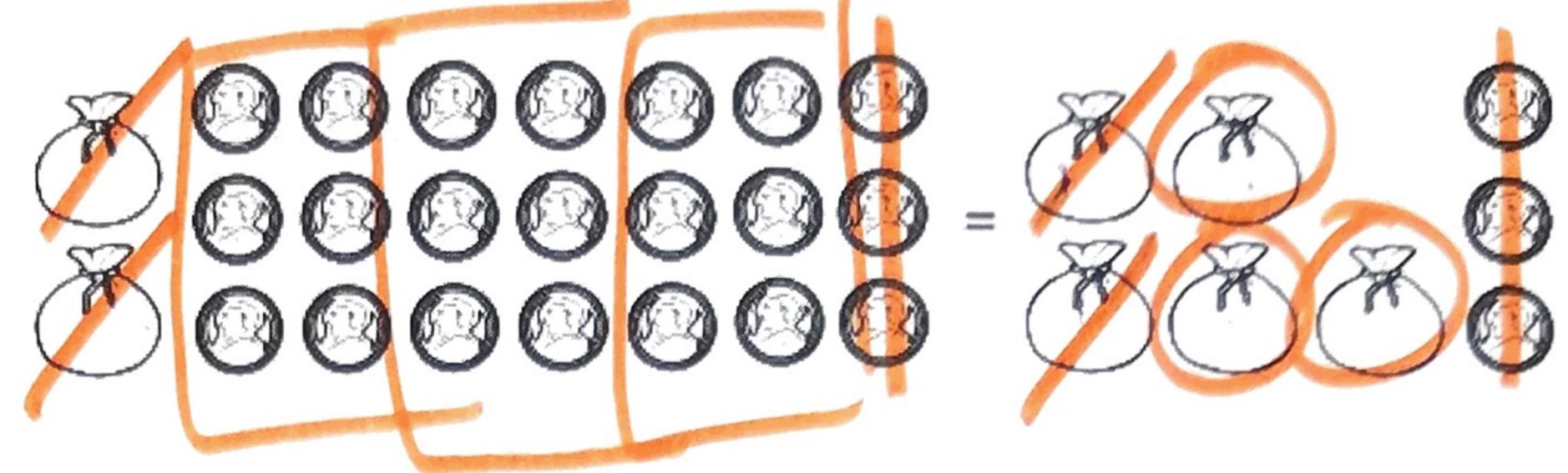
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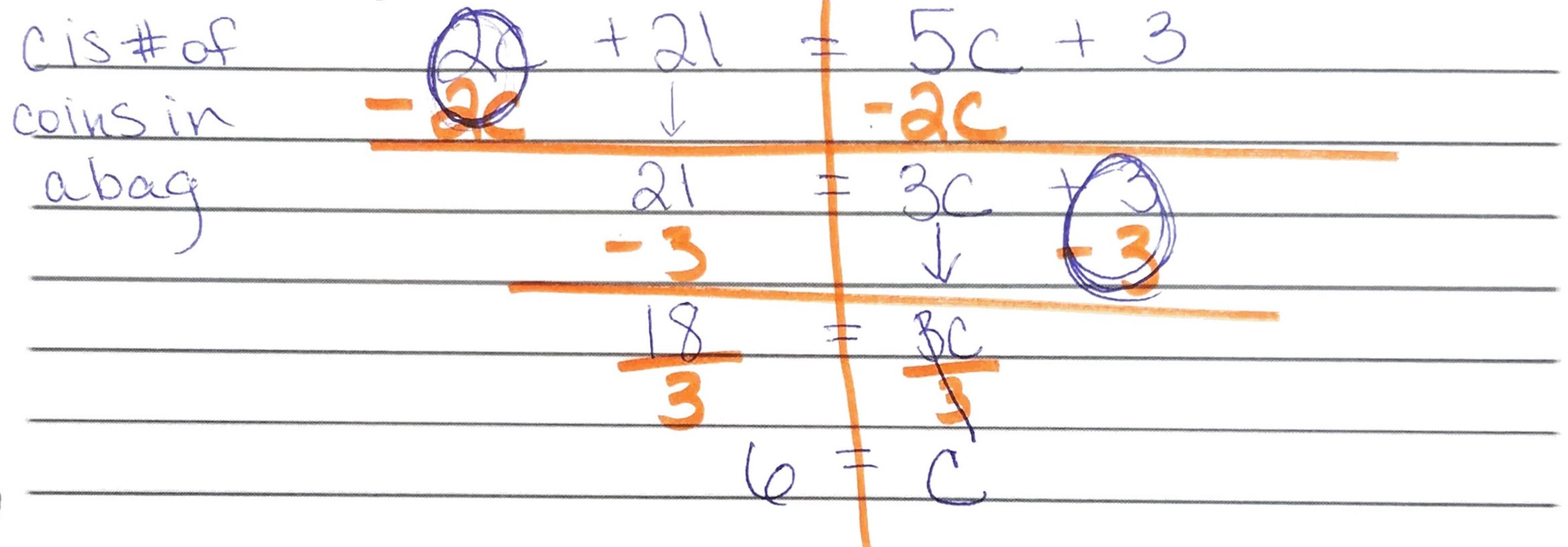
Unit 1 Day 12: Variables on Both Sides

Focus Question: How do I solve an equation with variables on both sides of the equal sign?

- A. From a Picture to Symbols
 - 1. How many coins are in each pouch?



2. What does the problem above look like when it is done algebraically?



An equation is solved when a variable is isolated on <u>one side of the equal sign</u>. In order for this to happen, <u>the variable can only be on one side</u>. You must decide which side is going to be the variable side before you can continue solving! You are strongly encouraged to label your choice.

B. Together: Solve each equation below and then check your solution when told.

$5n+12 \pm 9n-16$	$2.\sqrt{-7x+15} + -3 + 2x$			
and Heal		-2X -2X		
-4n +10=-110		-9x +15+-3		
42 - 12		4 48 -15		
-Hn = -28		-9x + -18		
-4				
$\frac{1}{2} + \frac{1}{2}$		x + 2		
hools (a lock that)				

Check: (supstitute)

Check:

$$-7(a)+15=-3+2(a)$$

$$1=1$$
True so
$$x=2 i S_{+}$$

