What do the diagrams below mean to you? What could be in each box? Assume each box is not identical.				
	are said to l	expressions represent the; expressions make an		
Example 1:  The reason we can do this is because inverse				
25 n – 17		operations were performed on	both sides of the	
			late the variable.	
		Inverse Operations:		

## Foldable Activity

Now with the help of your foldable solve and write the properties.

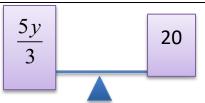
25 = n - 17

Equivalent Equations:

Solve and Justify with listing the properties used.

$$b - 21 = 42$$

$$(m-3)+5=12$$



Solve, show each step and justify each step by listing the properties

$$\frac{4}{5}x = 16$$

$$\frac{3}{4}\left(\frac{2}{3}a\right) = 24$$

Word Problems: Write the question, write the equation that best suits the question, an	nd use inverse
operations to solve.	

Example 1: Linda gave  $\frac{1}{6}$  of her cookies to her sister. She gave her sister 4 cookies.

**Variable:** 



Example 2: One serving of soybeans contains 10 grams of protein, which is 4 times the amount of one serving of kale.

Variable:

Example 3: The Earth's radius is 6,371km, which is 2,981km longer than the radius of Mars.

**Variable:** 



## Ticket out the Door

Explain the role inverse operations play in solving equations. Use 2x = 8 and y - 4 = 9 as examples.