Name	Block	Date	
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Essential Question:

Example $2(3x-1)=5(2x+3)-1$	Steps
	Simplify both sides by combining like terms
	Get variables on one side of the = sign and constants on the other side of the = sign
	Solve for the variable
	Check by plugging your answer back into the original equation

\*\*NOTE: You may get "No Solution" or "Infinitely Many Solutions" as your final answer!

Example of a "No Solution" problem	Example of "Infinitely Many Solutions"
Final answer looks like this:	Final answer looks like this:

Let's try these together:

1) 
$$4-(2c-6)=-4(c+1)+2c$$

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 2)  $\frac{5}{2}b-2=b-\frac{1}{2}$ 

Fractions:

Practice: Solve each equation.

Unit 2, Lesson 2 Notes: Solving Equations with Variables on Both Sides

1) 
$$11x+7=10x-8$$

2) 
$$\frac{x}{3} + 5 = 2x$$

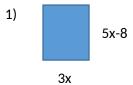
3) 
$$5(3x-2)=3(5x-1)$$

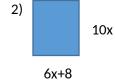
4) 
$$\frac{1}{5}(y-1)=6-2(4-y)$$
 5)  $\frac{m}{2}+\frac{8}{5}=4-\frac{3}{10}m$ 

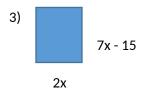
5) 
$$\frac{m}{2} + \frac{8}{5} = 4 - \frac{3}{10}m$$

6) 
$$1-8x=8-7x$$

Find the perimeter of the square: (Hint: set sides equal to each other!)







Saving and Spending: Currently, you have \$80 and your sister has \$145. You decide to save \$6 of your allowance each week, while your sister decides to spend her whole allowance plus \$7 each week. How long will it be before you have as much money as your sister?