## **Investigate**

#### **Order the Operations**

A series of steps is listed below, but the steps are not in the correct order. Write the steps in order so that the desired outcome will be reached.

- Let the tea steep for four minutes.
- · Fill the kettle with cold water.
- Put two teabags into the teapot.
- Warm the teapot by filling it with hot water.
- · Pour the hot water out of the teapot.
- · Serve the tea.
- Plug in the kettle.
- Remove the teabags.
- When the kettle boils, pour boiling water over the teabags.

NOTE: You only need to <u>number</u> or <u>list</u> the steps in order.



## Pack up a Drill

The steps listed below are out of order. Arrange them in the correct order to allow the outcome to be reached.

- Remove the battery from the cordless drill.
- · Remove the drill bit from the drill.
- · Put the drill bit back into the case.
- · Put the battery into the battery charger.
- · Put the drill back into the case.

### **Solving 2-Step Equations**

#### Okay...Let's write recipes for ...

- a) 'doing' and
- b) 'undoing' each of the equations below.

3x - 2 = 4	4x + 1 = -7	
Doing: To get 4,	Doing: To get -7,	
2 from 3 times a #	to 4 times a #.	
Undoing: To get x,	Undoing: To get <i>x</i> ,	
2 then divide by 3.	I and then divide by t	

## Okay...Let's write number recipes for ...

- a) ...'undoing' each of the equations below, and then
- b) we'll check our work to make sure that the answer is correct (on the next slide).

-4x + 1 = -3	3t + 6 = 9	
-4x+0=-4		
-4x = -+		
-4 -4		
× = 1		

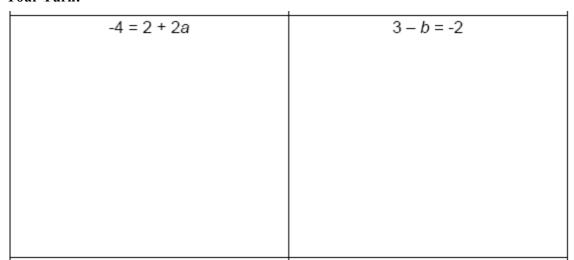
## **Solving 2-Step Equations**

## 'Checking' Your Work:

-4x + 1 = -3		3t + 6 = 9	
LS = -4() + 1	RS = -3	$LS = 3(\underline{}) + 6$	RS = 9
= - + + 1		= 3 + 6	
= -3		= 9	

Since the LS = RS,  $x = \underline{\hspace{1cm}}$  is the answer. Since the LS = RS,  $t = \underline{\hspace{1cm}}$  is the answer.

#### Your Turn:



Question: How could you tell if your answer is correct?

# **Equations Activity**

## **Activity: Puzzle Square**

- 1-Solve the puzzle with your group
- 2-Each group member records their solutions to 3, different equations (EXIT TICKET). Each person is to pick equations that are different from their peers'.

Puzzle Square

MSIP/HW:

To be announced

Solving Equations\_Puzzle Square1.pdf