

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 number or list 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.

$3x - 2 = 4$ <p>Doing: To get 4, ... <u>subtract</u> 2 from 3 times a #</p> <p>Undoing: To get x, ... <u>add</u> 2 then <u>divide</u> by 3</p> 	$4x + 1 = -7$ <p>Doing: To get -7, ... <u>add</u> 1 to 4 times a #</p> <p>Undoing: To get x, ... <u>subtract</u> 1 and then <u>divide</u> by 4</p>
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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).

$-4x + 1 = -3$ $\begin{array}{r} -1 \quad -1 \\ \hline -4x + 0 = -4 \end{array}$ $\begin{array}{r} -4x = -4 \\ \hline -4 \quad -4 \\ \hline x = 1 \end{array}$ 	$3t + 6 = 9$ $\begin{array}{r} -6 \quad -6 \\ \hline 3t + 0 = 3 \end{array}$ $\begin{array}{r} 3t = 3 \\ \hline 3 \quad 3 \\ \hline t = 1 \end{array}$
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Solving 2-Step Equations

'Checking' Your Work:

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

Since the LS = RS, $x = \underline{\quad}$ is the *answer*. Since the LS = RS, $t = \underline{\quad}$ is the *answer*.

Your Turn:

$-4 = 2 + 2a$	$3 - b = -2$

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

Pull

Pull

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

Attachments

Solving Equations_Puzzle Square1.pdf