book of

SOLVING equations

created by:

Name

solving equations vocabulary terms

icient Constant

variable: letters that represent a # (inkrown #)

coefficient: # in front of Variable,

constant: # W/o variable Plain naked © Katrina Newell, 2017

ONE STEP EQUATIONS

TO UNDO ADDITION > Subtraction TO UNDO SUBTRACTION > ADDITION TO UNDO MULTIPLICATION > _DIVISION TO UNDO DIVISION > _ MUHIPLICATION

Solve for the MISSING VARIABLES



$$X + 5 = 30$$
 $X = 26$





$$\frac{5k = 35}{5}$$



$$B = 10.3$$

MULTI STEP EQUATIONS

STEP 1:	DISTRIBUTE
STEP 2:	COMBINE LIKE TERMS ON EACH SIDE.
STEP 3:	MOVE VARIABLES TO ONE SIDE.
STEP 4:	MOVE CONSTANTS TO THE OTHER SIDE.
STEP 5:	MULTIPLY BY DENOMINATOR OR DIVIDE BY THE COEFFICIENT.

SOLVE FOR THE MISSING VARIABLES



$$\frac{3X}{4} + 4 = 10$$

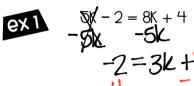


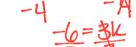
$$-2(-W + 2W - 3) = 30$$

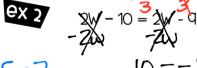
EQUATIONS W/ VARIABLES ON BOTH SIDES

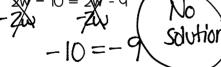
STEP 1:	MOVE THE SMALLER VARIABLE TO ONE SIDE.
STEP 2:	MOVE CONSTANTS TO THE OTHER SIDE.
STEP 3:	MULTIPLY BY DENOMINATOR OR DIVIDE BY THE COEFFICIENT.

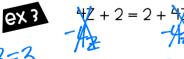
SOLVE FOR HHE MISSING VARIABLES









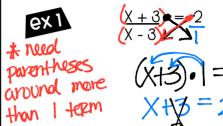


3=3

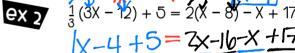
2=2 Infinite Solutions Solutions

MULTI-STEP EQUATIONS WITH VARIABLES ON BOTH SIDES

SOLVE FOR THE MISSING VARIABLES



X = 2x - 9 -2x - 2x -2x - 2x -2x - 2x -2x - 2x



$$X+1=X+1$$

Same=Same

PA9E

CI

Infinite Solutions

* Cross

multiplu

PASE 6

TWO STEP EQUATIONS

STEP 1: ADD OR SUBTRACT CONSTANT

STEP 2: MULTIPLY OR DIVIDE BY COEFFICIENT

SOLVE FOR THE MISSING VARIABLES



$$8X - 8 = 10$$

 $18 + 18$
 $8X = 18$



PA9E



$$\frac{a}{4} - \frac{10}{4} = -12$$



$$3 - \frac{47}{3} = 10.3$$

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MULTI STEP EQUATIONS

STEP 1:	DISTRIBUTE
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SOLVE FOR THE MISSING VARIABLES



$$\frac{3X}{4} + \frac{1}{4} = 10$$



ex 5

$$-2(-W + 2W - 3) = 30$$

$$-2w + v = 3$$

$$-\frac{2}{2}\omega = \frac{24}{24}$$

ONE STEP EQUATIONS

TO UNDO ADDITION →

TO UNDO SUBTRACTION →

TO UNDO MULTIPLICATION → _____

TO UNDO DIVISION → _____

SOLVE FOR THE MISSING VARIABLES



$$X + 5 = 30$$







$$\frac{B}{3} = 10$$

€