



Back to the good old stick person... it's my true Art "style" I think...

Here I am again, writing from the emptiness of my classroom. It's quiet and boring and weird.

I hope you are finding the time to practice some sweet new skills and hobbies. Here's my artistic representation of my sweet new skills since self-isolation began...



The majority of you are doing a great job of asking questions, getting help and staying connected through Teams. Great work! If you have not set this up yet, please do!

Keep your eyes peeled for videos helping explain your new learning this week on Teams and my website.

I hope you are healthy and happy and nerding out learning every day!

Ms. Burns

# 9 Math

# Monday April 6th - Friday April 10th

- Hand in U3 Test to Hand-In bin (or photos sent to me online)
- □ Read and Fill-in UYLI
- □ U4LI Booklet Questions
- □ U4AI (coming Wednesday)

#### Suggested Schedule:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
U4LI Notes	Send Ms. Burns a message to ask questions about what you don't understand	U4LI Booklet Questions	UHAI	

# 9 MATH

# UT: Algebra

Work @ Home Package

Monday April 6<sup>th</sup> — Friday April 10<sup>th</sup>

NAME:



# \* REVIEW: change words => numbers \* symbols

#### Translating Phrases - Linear Expression

Translate each verbal phrase into an algebraic expression:

$$\chi+2$$

# U4:L1 Algebra Review

\*\*\*Use highlighters, pencil crayons or markers to color coordinate and doodle on the notes to help remember\*\*\*

Operation	Inverse
+	
_	+
×	<u>.</u>
÷	X
<b>x</b> <sup>2</sup>	$\sqrt{x}$

When solving problems algebraically, you always...

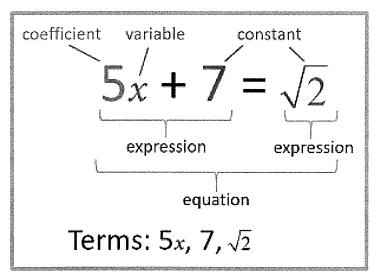
- 1) Do the inverse operation.
- 2) Do the same to both sides of the equal sign.

#### Examples:

x-4 = 10 $+4$ $+4$ $7 = 14$ $y+2 = 12$ $-2$ $-2$ $y = 10$	$\frac{4x \neq 200}{4}$ $7 \neq 50$	$\frac{2}{2} = 7 \times 2$ $0 = 14$
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#### Your turn:

9 - 1



#### Remember...

# Equation has an equal sign (=)

Expression

### does not

1. Match the following terms to their definitions:

CONSTANT	A math phrase with an
	 equals sign
EXPRESSION	A math phrase without an
	equals sign.
EQUATION	The unknown term (often
	expressed as a LETTER)
VARIABLE	A quantity that does not
	change (usually a
	NUMBER!)

#### 2. Fill out the following table:

	VARIABLES	CONSTANTS	(CIRCLE ONE)
x + 4			EQUATION / EXPRESSION
a+b+7			EQUATION / EXPRESSION
44 = 11 + f	та в в в в на при на п	на шишком недоставлен до станова в постанова со станова не общено в постанова кори им на совтова на останова н Станова	EQUATION / EXPRESSION
10 + 13 = 23			EQUATION / EXPRESSION
4+7			EQUATION / EXPRESSION

# Solving TWO Step Equations

Solving two step equations follows the Same steps as one step equations.

- Do the inverse operation.
- 2) Do the same to both sides of the equal sign.

What inverse operation do I do first???

# BEDMAS backwards ... SAMDEB

Examples:

$3m - 5 \neq 10$	2b + 10 = 90	$5x - 5 \neq 150$	$\frac{a}{0} \neq 7+3$
Zm=15	Z1 SD	By=155	1/2 = 10 x9
3 3	20 780	8 5	9
(M=5)	(b = 40	7=30	(a=90)

#### Your turn:

Tour Turre			
5 + 2q = 11	$\frac{b}{2} + 10 = 70$	5 = 150 + 5c	$7 = \frac{2a}{8}$

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Main Ideas/Questions	Notes/Examples	
one-Step Equations	1. $m + 12 = 10$ $-12$ $-12$	<b>2.</b> -2 = g - 9
Equation5	(N11-d)	
	<b>3.</b> -7 <i>y</i> = -91	<b>4.</b> $\frac{a}{9} = -4$
Fractions		<b>6.</b> $\frac{4}{9}w = -8$
To "get rid" of a fraction,	(X = 15)	
RECIPROCAL!	<b>7.</b> $-\frac{6}{5}k = 12$	<b>8.</b> $-\frac{1}{2}m = -9$
"flipped Fraction"		
	To Solve a Two	o-Step Equation:
1W0-LL0	1	ıction (to remove constant term)
i vi	2. Undo the Multiplication/D	ivision (to remove coefficient)
Two-Step Equations	9. $6x + 8 = 50$ $-8$ $6x = 42$ $6$ $x = 7$	<b>10.</b> $2n-5=11$
	<b>11.</b> 13 = -4 <i>k</i> + 9	12. $7-3y = 34$ $-7$ $-3y = 27$ $-3y = 27$ $-3 = -3$ $-$

13.	$\frac{x}{2}$ – $\frac{1}{2}$	7 = 9	
	2		

**14.** 
$$11 = \frac{c}{-5} + 8$$

**15.** 
$$\frac{3}{5}x + 22 = 28$$

16. 
$$-\frac{1}{3}m+1=-7$$
 Remember

 $\frac{3}{-1} \times \frac{-1}{3}m = -\frac{8}{1} \times \frac{3}{-1}$  BOTTOM × BOTTOM

# RECIPROCAL FRACTIONS (flipped fraction)

17. 
$$-10 + \frac{7}{4}p = -38$$
 SIMPLIFY! 18.  $15 = 9 - \frac{1}{2}x$ 

$$+10 + 10$$

$$\frac{4}{7} \times \frac{7}{4}P = -\frac{24}{2} \times \frac{4}{7}$$

$$P = -16$$

**18.** 
$$15 = 9 - \frac{1}{2}x$$

## Watch Duff

The examples below are different in that the multiplication/division is done FIRST, followed by the addition/subtraction.

$$\frac{19. \frac{x+11}{8} = -3 \times 8}{x+11 = -24}$$

$$\frac{-11}{x^2 = -35}$$

**20.** 
$$\frac{n-5}{-2} = -7$$

**21.** 
$$1 = \frac{a-13}{-6}$$

**22.** 
$$4 = \frac{w+8}{9}$$

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