Teachers: Castello, Pereira, Piuser, Tober

Course: Algebra 1

Periods: all

Assignment: Week 2 – Solving Equations

Teacher: Castello, Pereira, Piuser, Tober

Welcome to our Distance Learning Classroom!

Subject: Algebra 1 Dates: Week 2: 4/27 – 5/1

Student Time Expectation per day: 30 minutes

Content Area & Materials Algebra 1	Learning Objectives	Tasks • Paper Packet Option • Digital Option	Check-in Opportunities	Submission of Work for Grades • Method: Scan, photo, email, or deliver		
 PAPER PACKET vveekly Planner (this sheet) Notes/Examples page 3 worksheets on solving multi-step equations Dígítal Optíon Log on to your khan academy account at www.khanacademy.org Complete the khan academy activities assigned by your teacher. 	ESSENTIAL QUESTION: How do you solve an equation that requires multiple steps? STUDENTS WILL Be able to use the distributive property in an equation Be able to combine like terms to simplify an equation. Be able to solve a multi-step equation.	PAPER PACKET: If you picked up a paper packet you are expected to turn in the 3 worksheets completed in order to get credit for week 2. (per distance learning Calendar, week 2 work is due May 8). Work should be shown on a separate piece of paper. You are also welcome to scan or take photos of your work and email them to your teacher. ONLINE WORK: You are to complete the assigned Khan academy activities by May 8.	DFFICE HOUR.S: Mrs. Castello: Office Hours: Mon - Frí, 9am - 11am Emaíl: ecastello@tusd.net Google #: (209) 597-8667 Ms. Pereíra: Office Hours: Zoom meeting Mon-Frí, 12pm - 1pm Emaíl: <u>mpereíra@tusd.net</u> Google #: (209) 597-8039 Mr. PÍUSER: Office Hours: Mon-Frí, 12pm - 2pm Emaíl: <u>apíuser@tusd.net</u> Google #: (209) 691-3102 Mrs. Tober: Office Hours: Mon - Frí, 1pm - 3pm Emaíl: jtober@tusd.net Google #: (209) 597-8704	Students are expected to complete either the paper packet <u>or</u> the digital option in order to receive full credit. IF SUBMITTING THE PAPER PACKET, LABEL WITH: • Student Name (First and Last) • Teacher Name • Algebra 1 • Period #: <u>PREFERRED:</u> TO SUBMIT ELECTRONICALLY, simply email your teacher a scan or photos of your completed work.		

Algebra 1 Week 2 notes/examples page

Definitions

Order of Operations: Parentheses, Exponents, Multiplication and Division, Addition and Subtraction

One step equations

Ex 1:
$$x - 6 = 3$$

 $+6 + 6$
 $x = 3 + 6$
 $x = 9$
Ex 2: $\frac{x}{q} = 3$
 $-6 - 6$
 $x = 3 \cdot 6$
 $x = 18$

Opposite operation to cancel

Two step equations

Ex 3:
$$\frac{x}{6} - 6 = 3$$
$$\frac{x}{6} + 6$$
$$\frac{x}{6} = 9$$
$$\frac{x}{6} - 6$$
$$x = 54$$

Variables on both sides

Ex 4:
$$4x + 7 = 13 - 2x$$

 $+2x + 2x$
 $6x + 7 = 13$
 $7 - 7$
 $6x = 6$
 $\div 6 \div 6$
 $x = 1$

Multi-step equations are usually solved in reverse of the order of operations. Notice the subtraction is canceled by addition, and then the division is canceled by a multiplication.

6

Fractions are division problems!

When the same variable is on both sides, find a way to add or subtract the variable to "cancel" it on one side. Then you can solve like normal.

BOOKS NEVER WRITTEN

The Break-in by
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Origin of Man by
-1 -11 -2 72 17 -6 25 17 12
Making Soap by
-9 25 -13 72 -8 25 -2 12 -6

ABOVE ARE THE TITLES OF THREE "BOOKS NEVER WRITTEN." TO DECODE THE NAMES OF THEIR AUTHORS:

Solve each equation below and find your solution in the code. Each time the solution appears, write the letter of that exercise above it.

	{}
(i) $4y - 9 = 15$	(K) $11r + 60 = 16$
(A) 6x + 7 = -5	(U) $y - 24 = -7$
(S) $-9t + 2 = 56$	(J) $23 - x = 13$
$(P) -69 = 7\mathbf{v} - 6$	$\bigvee -67 = 6\mathbf{x} - 1$
(Y) 35 = -2 x - 15	(M) - 4e - 9 = 19
(1) $4 - 3n = 43$	$\bigcirc -8 = 32 - 5q$
(N) $12 - 5u = -48$	(H) 6 + 10 k = 256
\bigcirc -27 + 20 w = 73	(T) -100 = 12t - 4
(E) $13 = 5 - 8m$	(L) $36 - x = -36$
	}}

OBJECTIVE 4–g: To solve equations of the form ax + b = c, where a is an integer (solutions are integers).

CRYPTIC QUIZ

1. Why does Beethoven now spend all his time erasing music?



Why Do Girls Like Guys Who Wear Shirts With Eight Buttons?

Solve each equation below and find your solution at the bottom of the page. Write the letter of that equation above the solution.

(E)
$$4(5n - 7) = 10n + 2$$

(N) $9(x + 3) = 4x - 3$
(A) $2(12 - 8x) = x - 11x$
(H) $3t + 8(2t - 6) = 2 + 14t$
(E) $2v + 18 = 16 - 4(v + 7)$
(I) $4x - (9 - 3x) = 8x - 1$
(T) $12(3 + y) = 5(2y + 8)$
(A) $-7(1 - 4m) = 13(2m - 3)$
(Y) $9(11 - k) = 3(3k - 9)$
(S) $4x + 5(7x - 3) = 9(x - 5)$
(T) $2(6d + 3) = 18 - 3(16 - 3d)$
(F) $8(4u - 1) - 12u = 11(2u - 6)$
(C) $-5 - (15y - 1) = 2(7y - 16) - 3(16 - 3d)$



2	10	3	7	9	29	4	-1	1	-8	-6	-16	-12	-5

V

OBJECTIVE 4-o: To solve equations containing parentheses and having the variable in both sides.