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 <br> - Paper packet Option <br> - Digítal optíon | Check-in Opportunities | Submission of Work for Grades <br> - Method: Scan, photo, email, or deliver |
| :---: | :---: | :---: | :---: | :---: |
| PAPER PACKET <br> - weekly Planner (this sheet) <br> - Notes/Examples page <br> - 3 worksheets on solving multi-step equations <br> Digítal Option <br> - Logon to your khan academy account at www.khanacademy.org <br> - complete the khan academy activities assigned by your teacher. | ESSENTIAL QUESTION: How do you solve an equation that requires multiple steps? <br> STUDENTS WILL... <br> - Beable to use the distributive property in an equation <br> - Beable to combine like terms to simplify an equation. <br> - 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 weete 2. (per distance learning calendar, weete 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. <br> ONLINE WORK: You are to complete the assigned Khan academy activities by may 8 . | OFFICEHOURS: <br> Mrs. Castello: office Hours: Mon-Fri, gam-11am Email: ecastello@tusd.net coogle \#: (209) 597-8667 <br> Ms. Pereíra: office Hours: zoom meeting Mon-Fri, 12pm-1pm Email: mpereíra@tusd.net Google \#: (209) 597-8039 <br> Mr. Píuser: office Hours: MOW-Fri, 12 pm - 2 pm Email: apíuser@tusd.net Google \#: (209) 691-3102 <br> Mrs. Tober: office Hours: Mon - Fri, 1pm - 3pm Email: :'tober@usd. net Google \#: (209) 597-8704 | Students are expected to complete either the paper packet or the digital option in order to receive full credit. <br> IF SUBMITTING THE PAPER PACKET, LABEL WITH: <br> - Student Name (Fírst and Last) <br> - Teacher Name <br> - Algebra 1 <br> - Períod \#: $\qquad$ <br> PREFERRED: <br> TO SUBMIT <br> ELECTRONICALLY, <br> simply email your teacher a scan or photos of your completed work. |

## Definitions

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

## One step equations

Ex 1: $\begin{aligned} x-\not-6 & =3 \\ +6 & +6\end{aligned}$
$x=3+6$

$$
x=9
$$

Opposite operation to cancel

## Two step equations

$\operatorname{Ex} 3: \frac{x}{6}-\emptyset=3$

$$
+6+6
$$

$$
\frac{x}{9}=9
$$

$$
x=54
$$

Variables on both sides
$\begin{aligned} \operatorname{Ex} 4: & 4 x+7=13-2 / x \\ + & 2 x\end{aligned}$

$$
\begin{aligned}
6 x+\neq & =13 \\
-7 & -7 \\
\phi x & =6 \\
\div \phi & \div 6 \\
x & =1
\end{aligned}
$$

$$
\begin{aligned}
\operatorname{Ex} 2: \frac{x}{q} & =3 \\
\cdot 6 & \cdot 6 \\
x & =3 \cdot 6 \\
x & =18
\end{aligned}
$$

Fractions are division problems!

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.

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

$$
\overline{10} \overline{-13} \overline{-7} \overline{-7} \overline{-25} \quad \overline{8} \quad \overline{72} \quad \overline{6} \quad \overline{5} \overline{-4}
$$

Origin of Man by

$$
\overline{-1} \overline{-11} \overline{-2} \quad \overline{72} \overline{17} \quad \overline{-6} \quad \overline{25} \overline{17} \overline{12}
$$

Making Soap by

$$
\overline{-9} \overline{25} \overline{-13} \overline{72} \quad \overline{-8} \quad \overline{25} \overline{-2} \overline{12} \overline{-6}
$$

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

## CRYPTIC QUIZ

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

$$
\overline{16} \overline{6} \overline{-4} \overline{10} \overline{-3} \overline{6} \overline{-9} \overline{7} \overline{20} \overline{-5} \overline{7} \overline{10} \overline{-4} \overline{3} \overline{21}
$$

2. What is it called when a sea bird lands on a channel marker?

$$
\overline{-36} \overline{9} \overline{7} \overline{-8} \overline{20} \overline{6} \overline{6} \overline{-2} \overline{10} \overline{21} \overline{9} \overline{11} \overline{11}
$$

3. How does a tree feel after a hard day at work?

$$
\overline{-36} \overline{9} \overline{10} \overline{16} \overline{6} \overline{-3}
$$

## TO DECODE THE ANSWERS TO THESE QUESTIONS:

Solve each equation below and find your answer in the code. Each time the solution appears, write the letter of that exercise above it.
(O) $8 u=3 u+35$
(N) $7 y=33-4 y$
(E) $2 x+48=10 x$
(T) $5 t-26=18 t$
(1) $k=8 k+28$
(G) $-30 n=-27 n-63$
(H) $4 x+4=2 x+36$
(D) $9 y-1=y-25$

# 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) $4(5 n-7)=10 n+2$
(N) $9(x+3)=4 x-3$
(A) $2(12-8 x)=x-11 x$
(H) $3 t+8(2 t-6)=2+14 t$
(E) $2 v+18=16-4(v+7)$
(1) $4 x-(9-3 x)=8 x-1$
(T) $12(3+\boldsymbol{y})=5(2 \boldsymbol{y}+8)$
(A) $-7(1-4 m)=13(2 m-3)$
(Y) $9(11-k)=3(3 k-9)$
(S) $4 x+5(7 x-3)=9(x-5)$
(T) $2(6 \boldsymbol{d}+3)=18-3(16-3 d)$
(F) $8(4 u-1)-12 u=11(2 u-6)$
(C) $-5-(15 y-1)=2(7 y-16)-y$


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

