

OTES - HOMEWORK - QUIZZES - TEST

Created by: ALL THINGS ALGEBRA®

Unit 2 - Multi-Step Equations & Inequalities: Sample Unit Outline

	TOPIC	HOMEWORK
DAY 1	Multi-Step Equations	HW #1
DAY 2	Variables on Both Sides	HW #2
DAY 3	Infinite & No Solution Equations	HW #3
DAY 4	Algebraic Proportions	HW #4
DAY 5	Quiz 2-1	None
DAY 6	Absolute Value Equations	HW #5
DAY 7	Multi-Variable (Literal) Equations	HW #6
DAY 8	Equations Review	HW #7
DAY 9	Word Problems	HW #8
DAY 10	More Word Problems	<b>+</b>
DAY 11	Equations & Word Problems Review	HW #9
DAY 12	Quiz 2-2	None
<b>DAY 13</b>	Multi-Step Inequalities	HW #10
DAY 14	Compound Inequalities	HW #11
DAY 15	Absolute Value Inequalities	HW #12
DAY 16	Inequalities Review	HW #13
DAY 17	Quiz 2-3	None
<b>DAY 18</b>	Review for Test; Complete Study Guide	HW #14
DAY 19	UNIT TEST	None

See sample images of the pages on the next page.

None							
Name:		Date:			Properties o	f Equality	
Main Ideas/Questions	s Notes/Examples	Class.	J		The steps to solve an equation are justified by prope equations stays balanced in order to solve for the m		that the   Name: Algebra I
		Name:		Det	Addition Property of Equality     Subtraction Property of Equality		Quiz 2-1: Equations
Steps to Solve a Multi-Step Equation		Topic:		Co	<ul> <li>Multiplication Property of Equality</li> <li>Division Property of Equality</li> </ul>		Directions: Solve each equation. SHOW ALL WORK!
muni-orch Eduano		Main Ideas/Quest	tions Notes/Examples		Distributive Property		<b>1.</b> $6y - 8 - 6 - 8y = 4$ <b>2.</b> $-7(x + 7) = -56$ <b>ANSWERS</b>
Examples	<b>1.</b> 9x + 1 - 7x - 5 =	STEPS			Directions: Identify which property justifies each step  Equation Steps		below.
		TO SOLVE	8	<u> </u>	500 000 000 000 000 000 000 000 000 000	Properties/R Given	Group Members:
		OUTDED	$0  \frac{4}{3} = \frac{x}{6}$				REVIEW: Equations & Word Problems
	<b>2.</b> 91 = -7(3 <i>a</i> - 1) =	GUIDED EXAMPLES	The second secon				Directions: Work together to salve each problem: SHOW ALL WORK! Each person should be participating. At the end of class, one person's paper will be chosen a transion and graded for the group.
	1	LANI II LLO		Using Al	gebra to Solve Word Pro	blems	Directions: Solve each equation. SHOW ALL STEPS!  1. $-2(4x+3)-(x-7)=46$ 2. $\frac{4}{(473+377)}=87$ Ob.
Name:			Date:	O DEFINE A VARIABLE	2 SET UP EQUATION & SOLVE 3 DE	FINE ANSWER	1. $-2(4x + 3) - (x - 7) = 46$ 2. $-\frac{4}{3}(12k + 27) = -57 - 9k$
Topic:			Class:	Use "LET STATEMENTS" to define your variable.	Translate into an equation using Give	exactly what the lem is asking for.	
Main I	Ideas/Questions Notes/Examp	ples		L	Set 1: Finding Two Numbers		
L	iteral			The larger of two numb is 74, find the numbers.	ers is four more than the smaller number. If the s	um of the numbers	3. $23-2(5a+9) = 5(2a-11)$ 4. $\frac{5}{2}(6w-16) = 18w-(3w+40)$
Eq	uations	SOLVE FACH OF THE I	EQUATIONS BELOW FOR	27 Y 00000 0000 00000 00000 00000 00000 0000			
		r – 5 = 13	ax-b				
			1000	2. The larger of two numb		_	$6.\frac{g}{8} = \frac{g-1}{10}$
ne:		Date:		the numbers is 61, find t	Unit 2 Test Study Guide Equations & Inequalities	Name:	
ic:		Class:				- I EMPLOY	Name: Algebra I Unit 2 Te
Main Ideas/Questions	Notes/Examples		**		1. $-5(x-2) - (x+2) = 50$	Multi-Step Equations 2. $8 - 3(k + 2) = 2 - 2$	
Interval Interval Notation is another way of expreto an inequality. It uses parentheses and			Name:				SHOW ALL WORK NEEDED TO ANSWER EACH QUESTION!
Notation	where the g	graph starts and e	Topic:				PLACE YOUR FINAL ANSWER IN THE BOX. GOOD LUCK!  1. Solve the equation below.  2. Solve the equation below.
	Use when a graph star		Main Ideas/Questions N	GREATER THAN			-12x + 8 + 5x = 36 $8k - (6k - 4) = 10$
Symbols	Brackets mean "includ Use when a graph star	led", or "closed" rts or ends on a C	Absolute Value Substitutes	Example: $ x  \ge 5$	3. $3w - (7w + 12) = 2(w - 3)$	<b>4.</b> $-7(a-3) = 11-7$	- 7a
	Always use	with infi		Inter			
	nd write the solution to each in			LESS THAN			
\$OLVE 4(x+3)>-24	GRAP	Н		Example: $ x  \le 8$	5. 9(n - 4) - 7n = 32 - 2(n + 8)	<b>6.</b> 4(4y - 3) - (y - 5)	-5) = -52
			What does				3. Solve the equation below.     4. Solve the equation below.
			this mean?	ISOLATE the absolute value			-2y + 4 = 8y - 6 $13w - 2(4w + 1) = w - 58$
(x-3(x+2)) > 4	e e	- 8	steps to solve	CREATE TWO CASES: Use the set up the two cases.			
	10			SOLVE both inequalities.  GRAPH the solution and wri			
	<del></del>	<del></del>		d write the solutions to the follow	7. $\frac{2}{9} = \frac{4}{x+8}$	Proportions  8. $\frac{6}{a-6} = \frac{3}{a-3}$	
$7x - 2(x - 4) \le -2$		ar ar	<b>1.</b>  x  < 7		9 x+8	a-6 a-3	
	<b>*</b>	<del></del>	<b>2.</b>  x  ≥ 4				5. Solve the equation below. 6. Solve the equation below. $3h - 2(4h - 5) = 10 - 5h   9(m + 5) - 3(m - 2) = 8m + 3$
-8(x-1)-x≤-28					9. $\frac{5}{y-7} = \frac{3}{y-5}$	10. $\frac{6}{2n-5} = \frac{2}{n-7}$	
V(A-1)-A 2-20			3. $ x-1  > 6$				
	<b>←</b>						
		© Gina Wili	<b>4.</b>  x + 2  ≤ 7			© Gina	ins Wilson (All Things A)