Distance Learning Module 9: Week of: 6/1/2020-6/5/2020

Grade 8 Algebra - Modified from Unit F - Beyond Straight Lines

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret P(1+r)n as the product of P and a factor not depending on P. Write expressions in equivalent forms to solve problems. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

Vocabulary:

- Least Common Denominator (LCD) Least common multiple of the denominators
- Fraction Bust Technique to eliminate the denominator in the equation by multiplying every piece of the equation by the LCD
- Factoring Sometimes you need to factor in order to find the LCD
- **Restrictions** When solving a rational equation you need to look at your answers and make sure each individual answer won't cause you to divide by 0 when substituted back into the original equation. If this happens this answer needs to be discarded and not counted as a solution.

Skills: Fraction Bust and Factoring

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or Khan Academy)
Monday: Introduction to rational equations	Instruction:	
	Identifying Restrictions(youtube)	
 Watch two youtube videos on 		
fraction busting and identifying restrictions	Fraction Busting (youtube)	
 Watch a Khan Academy Video on how to solve rational expressions 	Rational Equations Intro(Khan)	
 Practice Fraction Busting 	Fraction Busting Practice (with answers)	
	Scroll past examples to Problems and do	
	numbers 1,4,6,8,20	

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or Khan Academy)
 Tuesday: Solving Rational Equations Watch two Khan Academy Video on how to solve rational expressions Practice solving rational expressions 	Instruction: Equations with Rational Expressions (Khan Practice: Mathaids Practice Sheet with answers * Odd problems only	
 Wednesday: Solving Rational Equations Watch two Khan Academy Videos on how to solve rational expressions Practice solving rational expressions 	Instruction: Equations with Rational Expressions (Example 2) (Khan) Practice: Mathaids Practice Sheet with answers * Even problems only	* DO NOT use these links to Khan Academy. Log into your Khan account and complete these assignments through your individual teacher's Khan class. Teachers will assign these in their Khan classes. Practice Rational Equations Intro (Khan)
 Thursday: Solving Rational Equations Watch videos on how to solve rational expressions Practice solving rational expressions 	Instruction: Solving Rational Equation video (youtube) Solving Rational Equation video 2 (youtube)	* DO NOT use these links to Khan Academy. Log into your Khan account and complete these assignments through your individual teacher's Khan class. Teachers will assign these in their Khan classes. Practice Rational Equations (Khan)
Friday: Solving Rational Equations • Practice solving rational expressions	Practice: Solving Rational Equations worksheet with answers odds only	* Do in your individual teacher's google classroom only Google Form Check-in

Week o	criteria for success (attach student checklists or rubrics):	
	I can eliminate the denominator in a rational equation.	
	I can identify the restrictions in a rational equation.	
	I can solve a rational equation.	
Supportive resources and tutorials for the week (plans for re-teaching):		
Unit F S	Smartboard Notes	