**Course: Algebra II**

**Topic: Semester A Exam Review: Part 1**

**Subtopic:**

**Document: LIVE Stream 1**

**Reference Number: 2149-4**

*https://youtube.com/c/MrMattTheTutor*



1. FOIL the following binomials:
	1. $(2x+3)(3x-1)$
	2. $\left(3x-5\right)\left(5X+2\right)$
2. FOIL the following binomials:
	1. $(8x+1)(3x+4)$
	2. $(4x+4)(6x-4)$
3. FOIL the following binomials:
	1. $(2x-5)(6x+3)$
	2. $(4x+6)(2x-4)$
4. Calculate the value of the following fractions:
	1. $\frac{3}{5}+\frac{6}{7}$
	2. $\frac{8}{9}-\frac{5}{6}$
5. Calculate the value of the following fractions:
	1. $(\frac{5}{3}-\frac{5}{6})(\frac{1}{5}+\frac{3}{10})$
	2. $\frac{4}{5}÷\frac{2}{3}$
6. Calculate the value of the following fractions:
	1. $(\frac{7}{3}-\frac{1}{6})(\frac{3}{4}+\frac{5}{12})$
	2. $\left(\frac{7}{8}÷\frac{3}{5}\right)-\frac{1}{6}$
7. Solve for the missing variable in the following equations:
	1. $\frac{1}{2}x+\frac{1}{6}x-\frac{1}{8}x=10$
	2. $\frac{x}{3}+\frac{x}{5}-\frac{x}{12}=20$
8. Solve for the missing variable in the following equations:
	1. $\frac{1}{12}x+\frac{1}{16}x-\frac{1}{18}x=120$
	2. $\frac{x}{20}+\frac{x}{25}-\frac{x}{75}=100$