Learning Target: I can multiply rational expressions and explain how that is the same as multiplying fractions.

Directions: Follow along with the video multiply and simplify the following Rational Expressions. Also, list all restrictions on the variable.

$$\frac{70-7x}{2} \cdot \frac{1}{x-10}$$

$$\frac{x^2 - 2x - 80}{x - 10} \cdot \frac{1}{x + 4}$$

$$\frac{x^2 - 3x - 40}{8x + 24} \cdot \frac{x^2 - 5x - 24}{x - 8}$$

3.
$$\frac{x^2 - 3x - 40}{8x + 24} \cdot \frac{x^2 - 5x - 24}{x - 8} \quad \frac{x^2 - 3x - 18}{x + 1} \cdot \frac{x^2 + 11x + 10}{x^2 + 20x + 100}$$

Multiply and simplify the following Rational Expressions. Also, list all restrictions on the variable.

$b^2 + 3b + 2$	1
8b - 32	b+1

$$\frac{x-3}{x-10} \cdot \frac{x^2 - 12x + 35}{x^2 - 8x + 15}$$

$$\frac{x^2 + 8x - 9}{10x + 90} \cdot \frac{x + 10}{8x - 8}$$

$$\frac{2x+12}{2x-4} \cdot \frac{x^2-11x+18}{5x-45}$$

$$\frac{2x-16}{x-8} \cdot \frac{x^2-8x+15}{35-2x-x^2}$$

$$\frac{n+7}{2n^2+6n} \cdot \frac{n^2+6n+8}{n^2+11n+28}$$