Welcome back 9th grade!

	Assignment Effort Grade (Circle One)	Comments (What was interesting or challenging?)
Monday Date: 11/6 Topic: Continued Coloring Links	0 1 2	
Tuesday Date: 11/7 Topic: Serpienski's triangle!	0 1 2	
Wednesday Date: 11/8 Topic: 6B: Rational Equations	0 1 2	
Thursday Date: _____ Topic: _____	0 1 2	
Friday Date: _____ Topic: _____	0 1 2	

Exercises from last tonight...SOLUTIONS

6B Page 98: #1, 2(h), 3 (pick 2), Challenge! 4(pick 1)

EXERCISE 6B

1 **a** $x = \frac{10}{9}$ **b** $x = 2$ **c** $x = -3$

d $x = \frac{13}{11}$ **e** $x = \frac{24}{19}$ **f** $x = -\frac{9}{14}$

g $x = -4$ **h** $x = \frac{25}{11}$ **i** $x = \frac{7}{8}$

2 **a** $x = \frac{21}{2}$ **b** $x = \frac{36}{5}$ **c** $x = \frac{10}{3}$

d $x = \frac{7}{6}$ **e** $x = \frac{6}{5}$ **f** $x = -28$

g $x = -18$ **h** no solution (x cannot be 0. Why?)

3 **a** $x = \frac{1}{7}$ **b** $x = -\frac{13}{10}$ **c** $x = -\frac{1}{4}$ **d** $x = \frac{29}{3}$

e $x = -6$ **f** $x = -\frac{2}{9}$ **g** $x = \frac{5}{12}$ **h** $x = \frac{2}{3}$

i $x = \frac{8}{15}$ **j** $x = 2$ **k** $x = \frac{1}{2}$ **l** $x = \frac{13}{4}$

4 **a** $x = 12$ **b** $x = -\frac{24}{5}$ **c** $x = -\frac{22}{3}$ **d** $x = -\frac{9}{7}$

e $x = 4$ **f** $x = \frac{3}{4}$

5 **a** $x = \frac{36}{11}$ **b** $x = 1$ **c** $x = -44$ **d** $x = -\frac{7}{5}$

e $x = -25$ **f** $x = \frac{4}{17}$

Class Plan:

1. Warm-up: Review Cross-Product
2. How are objects similar?
   - Notes
   - Prove triangles are similar
3. Practice!

Warm-up:

Solve for the unknown value *x*.

c $\frac{x}{3} = \frac{x+1}{2}$

$3(x+1) = 2x$

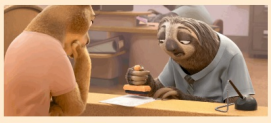
$3x + 3 = 2x$

$-3x \quad -3x$

$3 = -1x$

$\frac{3}{-1} = \frac{-1x}{-1}$

$-3 = x$



h $\frac{5}{6x} \neq \frac{4}{5x}$

$5 \cdot 5x = 4 \cdot 6x$

$25x = 24x$

$-24x \quad -24x$

$x = 0$

$\frac{5}{6(0)} = \frac{4}{5(0)}$

No solution!