



# Welcome back 9th grade!



|   | Assignment<br>Effort Grade<br>(Circle One) | Comments<br>(What was interesting or<br>challenging?) |
|---|--|---|
| <b>Monday</b><br>Date: <u>11/6</u><br>Topic: <u>Continued Coloring Links</u>  | 0 1 2                                      |   |
| <b>Tuesday</b><br>Date: <u>11/7</u><br>Topic: <u>Fractals, Lucas #s, ...!</u> | 0 1 2                                      |   |
| <b>Wednesday</b><br>Date: <u>11/8</u><br>Topic: <u>6B Rational Equations</u>  | 0 1 2                                      |   |
| <b>Thursday</b><br>Date: _____<br>Topic: _____                                | 0 1 2                                      |   |
| <b>Friday</b><br>Date: _____<br>Topic: _____                                  | 0 1 2                                      |   |

## Class Plan:

1. Warm-up: Rational Equations

2. How are objects similar?

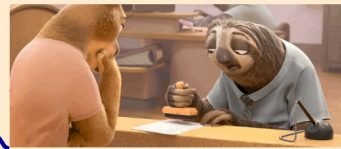
- Notes

- Prove triangles are similar

3. Practice!

Warm-up:

Solve for the unknown value



d  $\left( \frac{x+1}{2} + \frac{x-3}{5} = -1 \right) 10$

$$\frac{10(x+1)}{2} + \frac{10(x-3)}{5} = -10$$

$$5(x+1) + 2(x-3) = -10$$

$$5x + 5 + 2x - 6 = -10$$

$$7x - 1 = -10$$

$$\frac{7x}{7} = \frac{-9}{7}$$

$$x = \frac{-9}{7}$$

Solve each equation. Remember to check for extraneous solutions.

$$1) 5 = \frac{n+2}{2n} + \frac{1}{2n}$$

$$2) \frac{2}{p+5} = 4 + \frac{1}{p+5}$$

$$3) \frac{3}{n} = \frac{1}{n} - 6$$

$$4) \frac{1}{5n} = 1 + \frac{4}{5n}$$

$$5) \frac{4}{3p-12} = 1 + \frac{p-4}{3}$$

$$6) x - 4 = \frac{x-2}{5x} - \frac{2}{5x}$$

How?

$$1) 5 = \frac{n+2}{2n} + \frac{1}{2n}$$

$$3) \frac{3}{n} = \frac{1}{n} - 6$$

$$2) \frac{2}{p+5} = 4 + \frac{1}{p+5}$$

$$\frac{5n}{1} \left( \frac{1}{5n} = 1 + \frac{4}{5n} \right)$$

$$\frac{5n}{1} \left( \frac{4}{5n} \right)$$

$$\frac{5n}{1} \cdot \frac{1}{5n} = \frac{5n}{5n} = 1$$

$$1 = 5n + 4$$

$$-3 = 5n$$

$$\boxed{\frac{-3}{5} = n}$$

$$\frac{1}{5n} = \frac{5n}{5n} + \frac{4}{5n}$$