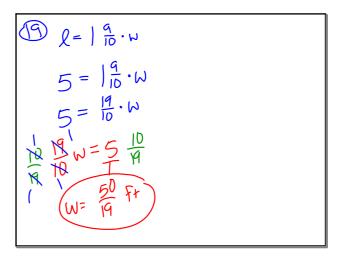
Do Now:

Your school colors are maroon and gold. At a home football game 5/6 of the home team fans are wearing maroon, and the rest of the home team fans are wearing gold. There are 35 home team fans wearing gold.

- a. Find the fraction of the home team fans who are wearing gold
- b. Find the total number of home team fans at the game. $\times = 356 \times = 310$ c. One seventh of the home team fans at the game graduated high
- school last year. How many home team fans graduated last year?

$$\frac{210}{7} = \left(30 \text{ fans}\right)$$

Dec 13-7:20 AM



Oct 26-8:09 AM

5.7 Equations and Inequalities with Rational Numbers

7.NS.1 7.NS.2 7.EE

- SWBAT use the LCD to solve equations and inequalities.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.
- · Calculators: No

Dec 13-7:22 AM

Solve an Equation by Clearing Fractions

1. Find the least common denominator (LCD)

Oct 26-8:05 AM

- 2. Multiply every term by the LCD
- 3. Simplify
- 4. Solve for x

Solve the equation by first clearing the fractions.

$$\frac{7}{16}x - \frac{7}{8} = \frac{7}{4}$$

$$\frac{7}{4}x - \frac{6}{16} = \frac{12}{46}$$

$$\frac{7}{4}x = \frac{18}{7}$$

$$\frac{7}{4}x = \frac{18}{7}$$

$$\frac{7}{4}x = \frac{18}{7}$$

Dec 13-7:22 AM

5.7 PA.notebook October 26, 2015

$$\frac{212}{1} \left(-\frac{5}{6} x + \frac{1}{2} \frac{16}{7} \frac{3}{4} \right) \frac{13}{1} \text{ LCD: 12}$$

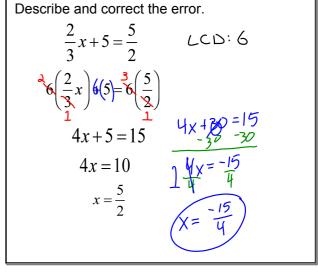
$$-10x + 6 = 9$$

$$\frac{3}{10} - \frac{3}{10} - \frac{3}{10}$$

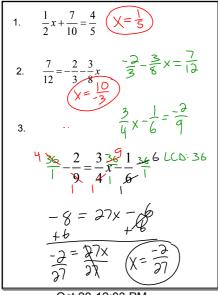
$$\frac{1 - 10x = 3}{1 - 10} - \frac{3}{10}$$

$$\frac{1 - 10x = 3}{10} - \frac{3}{10}$$

Dec 13-7:22 AM



Dec 13-7:25 AM



Oct 20-12:03 PM

Solve an Equation by Clearing Decimals

Multiply by 10^x, where x is the number of decimals

Oct 15-8:16 AM

Solve the equation by first clearing the decimals.

Move every term 2 decimal places

$$2.30 = 5.14 + 0.8 \text{ m}$$

$$230 = 514 + 80 \text{ m}$$

$$-514$$

$$-384$$

$$-384$$

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Dec 13-7:24 AM

$$2.2w - 3.64 = 8.46$$

$$220w - 364 = 8.46$$

$$-364 = 8.46$$

$$+364 + 364$$

$$-300w = 1210$$

$$220w = 1210$$

Dec 13-7:24 AM

5.7 PA.notebook October 26, 2015

Solve the equation by first clearing the decimals.

- 1. 9.6 2.4w = -24
- 2.6.1d + 20.74 = -51.85
- 3.81.9 = 32.76 + 9.1k

Exit Pass 5.7

How is solving an equation with terms that are fractions different from solving an equation whose terms only involve integers?



Oct 23-11:01 AM Dec 13-7:27 AM

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg. 69 #2-18 evens



Reflection of Today's Lesson

5.7 Equations and Inequalities with Rational Numbers

7.NS.1 7.NS.2 7.EE

- SWBAT use the LCD to solve equations and inequalities.
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- · Calculators: No

Oct 15-8:19 AM Oct 20-12:19 PM

Homework

pg. 256 #13-31 odds only



Dec 13-8:59 AM