Do Now:  
Describe and correct the error in the solution of 
$$1.5x + 0.25 = 1.6x$$

$$1.5 \times +0.25 = 1.6 \times$$

$$-15 \times + 2.5 = 16 \times$$

$$-15 \times + 2.5 = 1600 \times$$

$$15000 \times +250 = 16000 \times$$

$$\begin{array}{c} 20 - 1.258 \\ 0.25/66 + 42.4h) = 3.1652 \\ 16.5 = 10.6h = 3.1652 \\ 16.500 + 106000h = 31652 \\ -165000 \\ \hline 106000 + 106000 + 1033349 \\ 106000 + 106000 \\ \hline 106000 + 106000 + 106000 + 106000 \\ \hline 106000 + 106000 + 106000 + 106000 \\ \hline 106000 + 106000 + 106000 + 106000 + 106000 + 106000 \\ \hline 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000 + 106000$$

# 6.3 Solving Equations Involving Fractions and Decimals

7.NS 7.EE

- SWBAT solve equations with fractions and decimals.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

### Solving an Equation Involving Fractions

- 1. Multiply every term by the LCD.
- 2. Clear the fractions. (Simplify)
- 3. Solve.

$$\frac{3}{10}x = -\frac{1}{6}x + \frac{7}{10}$$

$$9x = -\frac{1}{6}x + \frac{7}{10}$$

$$1 + \frac{30}{10} + \frac{30}{10}$$

$$1 + \frac{30}{10} + \frac{30}{10} + \frac{30}{10}$$

$$1 + \frac{30}{10} + \frac{30}{10} + \frac{30}{10}$$

$$1 + \frac{30}{10} + \frac{30}{10} + \frac{30}{10}$$

$$1$$

$$\frac{1}{3}a = \frac{20}{21} - \frac{1}{7}a$$

$$\frac{1}{3}a = \frac{20}{21} - \frac{1}{7}a$$

$$\frac{1}{3}a = \frac{20}{10}$$

$$\frac{4}{5}x + 3 = -\frac{7}{10}$$

$$\frac{4}{5}x + \frac{3}{1} = -\frac{7}{10}$$

$$\frac{4}{5}x + \frac{3}{1} = -\frac{7}{10}$$

$$\frac{4}{5}x + \frac{3}{1} = -\frac{7}{10}$$

$$\frac{4}{5}x + \frac{3}{10} = -\frac{7}{10}$$

$$\frac{4}{5}x + \frac{3}{10} = -\frac{7}{10}$$

$$\frac{4}{5}x + \frac{3}{10} = -\frac{7}{10}$$

$$\frac{7}{10}x + \frac{7}{10}x + \frac{7}$$

$$2g - 1\frac{1}{4}g = \frac{1}{3}$$

$$\frac{1}{4}(\frac{2}{1}g) - (\frac{5}{4}g) = \frac{1}{3}$$

$$\frac{5}{6}v + \frac{5}{8} = \frac{3}{8}v$$

#### Exit Pass 6.3

At the fabric store, you buy a clothes pattern for \$7. You also buy 3/4 yard of red fabric, 2 1/2 yards of purple fabric, and 7/8 yard of blue fabric. The total cost is \$23.50. If all three fabrics are the same price per yard, how much do you spend on each fabric?

### **Reflection of Today's Lesson**

# 6.3 Solving Equations Involving Fractions and Decimals

7.NS 7.EE

- SWBAT solve equations with fractions and decimals.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

## <u>Homework</u>

pg. 284 #13-16, 21, 22

