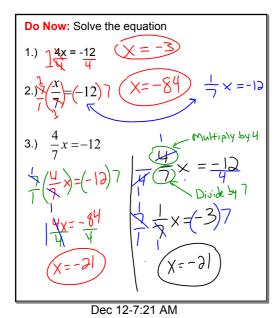
5.6 PA.notebook October 23, 2015



# 5.6 Using Multiplicative Inverses to Solve Equations

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

- SWBAT use multiplicative inverses to solve equations.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.
- Calculators: No

Oct 14-2:45 PM

The multiplicative inverse of a nonzero number is the number's reciprocal.

#### **Multiplicative Inverse Property**

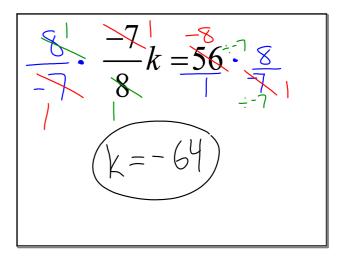
The product of a number and its multiplicative inverse is 1.

Algebra a/b \* b/a = 1, where  $a \neq 0$ ,  $b \neq 0$ 

Numbers 3/5 \* 5/3 = 15/15 = 1

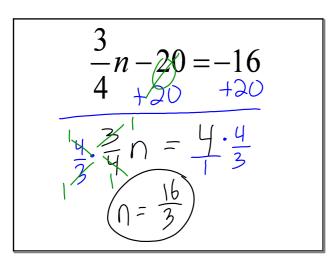
Dec 12-7:24 AM Oct 14-2:48 PM

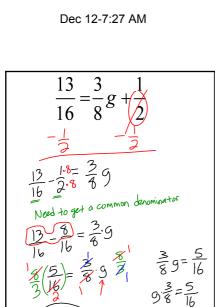
Solve the equation.  $\frac{1}{7} \cdot \frac{4}{7} = -12 \cdot \frac{7}{41}$  x = -21



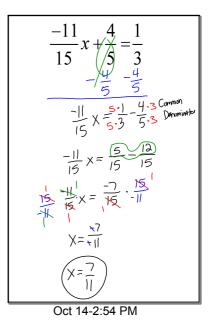
Dec 12-7:26 AM Dec 12-7:26 AM

1





Dec 12-7:27 AM



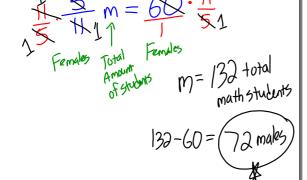
Describe and correct the error.

$$\frac{-1}{6}x = \frac{2}{3}$$

$$\frac{6}{-1}\left(\frac{-1}{6}x\right) = \frac{6}{-1}\left(\frac{2}{3}\right)$$
Forgot the negative
$$x = -4$$

Oct 14-2:55 PM

In a college math class, 5/11 of the students are female. The remaining students are male. There are 60 female students in the class. How many male students are in the class?



Oct 22-10:00 AM

#### Exit Pass 5.6

There are currently 1680 students at Fairview Middle School. So far this school year, an average of 3 1/2 new students have enrolled at the school each week. The school has maximum capacity of 1750 students. If this growth rate continues, in how many weeks will the school reach its maximum student capacity?

5.6 PA.notebook October 23, 2015

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

Working individually or with a partner, complete the workbook.

Workbook pg. 67 #2-26 evens



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

5.6 Using Multiplicative Inverses to Solve Equations

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

- SWBAT use multiplicative inverses to solve equations.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

Dec 13-7:15 AM Oct 14-10:11 AM

## **Homework**

pg. 249 #11-29 odds only



Oct 14-2:58 PM