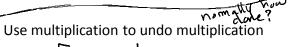
Lesson 5-8 Solving Equations by multiplying by fractions

Mr. Marroquin's 7th Grade Pre-Algebra Class



• Multiply both sides by the reciprocal of the coefficient and following any rules you have already learned.

Examples (2)

$$8x = \frac{57}{7}$$
$$2y = \frac{79}{9}$$

$$2\gamma = \frac{7}{9}$$

Fractions as the coefficient

$$\frac{2}{9}t = \frac{5}{6}$$

• Multiply each side by the reciprocal of the coefficient

Examples (2)

$$\frac{9}{13} = -\frac{6}{4}$$
s

$$\frac{2}{3}x = -8$$

What if there is a mixed number?

- Steps (2)
 - Convert mixed numbers to improper fractions
 - Perform inverse operations then solve & simplify

Writing Equations involving fractions • Your teacher needs a shelf to hold a set of textbooks one and five-eighths of an inch thick. How many books will fit if the shelf is 26 inches long? • Variable: ← Represents • Equation:	
In class / Homework • Class: PB 5-8 • HW: Page 262 49-53 all (Word problems)	