Mathematics9 Date _____

Unit 8 Solving Equations & Inequalities

8.2 Two-Step Equations

When solving two-step equations with fractions we can use either:

A) Regular equation solving steps **B) Denominator elimination**

Ex. Solve:

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

Method A Method B

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

$2y + \frac{1}{2} = \frac{3}{4}$

$\frac{n}{2} - \frac{3}{4} = 2\frac{3}{8}$

Equations with decimals just use regular equation solving process and a calculator for assistance.

Ex. Solve:

$\frac{a}{2.8} - 2.5 = -3.7$

Ex. A long-distance plan costs $4.95 a month plus 5 cents per minute. If the bill for one month was $18.75, how many minutes of long distance calls were made? Solve using a linear equation.

Practice: Text Pg. 213 #1-5, 8, 11