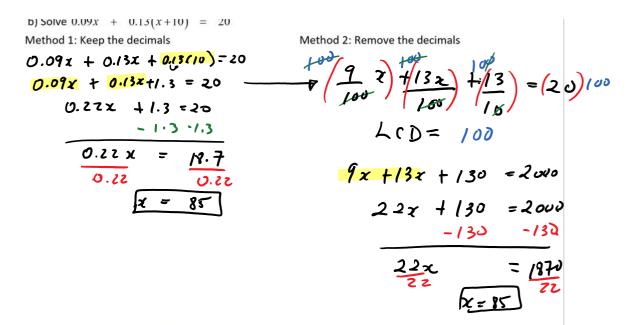
6 Algebra with Decimals October 25, 2020 6:37 PM

Lavel 6. Alcoh		Name:
Level of Algebra	a with Decimals (Sec 6.1 & 6.2)	Page 1 of 2
Learning Outcom	ne 6B: I can solve algebra equatio	ons with decimals.
	ns involving decimals algebraically	y uses the same techniques as before, or if you
don't like decima	als, you will need to change the ed	equation first. Let's try some out.
Place Value:	1,23	7 . 5 6 + 8
	thousand, hundreds	y uses the same techniques as before, or if you equation first. Let's try some out.
Decimals: Write	each decimal as a fraction. What	t you need to multiply it to make it a whole number?
	Decimal Fraction & Name	Multiply it byto get
а	0.9 4	rid of the fraction?
	0.9 9	tenths 10 3 hundredths 100 - thousandths 1000
b	0.03	3 6 1
	0.03	3 hundredges 100
С	0.007 7 7	thousandy 1000
	1000	- Follows and Anna
	$a = c - 12 \ 0.000$	6
-0.005x	0.05 = 0.030x - 0.000 $-0.002x$ $0.050 = 0.028x$ $0.056 = 0.028x$ 0.029 $2 = x$ $x = 2$	(Lowest Common Denominator): use the <u>larges1</u> denominator

0.09x + 0.13x + 0.13(10) = 20



Example 2: Solve 1.2(x + 7.5) = 2.5x - 17 You choose whichever method you wish.

Method 1: Keep the decimals

 $\frac{1.2x + 9}{-1.2x} = 2.5x - 17$ $\frac{-1.2x}{9} = 1.3x - 17$ $\frac{+17}{7} = 1.3x$ $\frac{-1.2x}{1.3} = 1.3x$

Method 2: Remove the decimals

Assignment: Algebra with Decimals Worksheet