

February 19, 2016  
 \* Exam #1 - Next Friday

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2.3 Fractions

① Find the LCD in which all denominators will divide evenly.

$$\frac{x}{1} + \frac{2}{3} = \frac{1}{2} \quad \text{LCD: } 6$$

② Distribute LCD through the whole equation.

$$6\left(\frac{x}{1} + \frac{2}{3} = \frac{1}{2}\right) \quad \frac{6}{1} \cdot \frac{2}{3} = \frac{12}{3} = 4$$

$$6x + 4 = 3 \quad \frac{6}{2} \cdot \frac{1}{2} = \frac{6}{2} = 3$$

③ Solve

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① Do 2.3  
 ② Read & Do Examples for 2.4! 😊

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2.3 Decimals  
 ↓  
 Fractions LCD: 10

$$10\left(x + \frac{23}{10} = \frac{46}{10}x\right)$$

$$10x + 23 = 46x$$

$$\frac{23}{36} = \frac{36x}{36}$$

$$\frac{23}{36} = x$$

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100 LCD: 100

$$100\left(-1.75x + 2 = 2.5x\right)$$

$$-175x + 200 = 250x$$

$$\frac{200}{425} = \frac{425x}{425}$$

$$\frac{40}{85} = x$$

$$* \frac{8}{17} = x$$

$$0.47058824 \approx x$$

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9 LCD: 9

$$9\left(\frac{7}{3}x + \frac{5}{9} = \frac{2}{3}x - \frac{4}{9}\right)$$

$$21x + 5 = 6x - 4$$

$$15x = -9$$

$$x = -\frac{3}{5}$$

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2.4 Formula Problems

①  $x + ab = \frac{c}{x}$   
 ~~$x$~~  Solve for  $b$

②  $\frac{ab}{a} = \frac{c-x}{a}$  A.A.  
 $b = \frac{c-x}{a}$  m.f.

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$xabc\left(\frac{1}{x} + \frac{1}{a} + \frac{1}{b} = \frac{1}{c}\right)$  y.c.d:  $xabc$   
 Solve for  $a$

$\frac{xabc}{1} \cdot \frac{1}{x} + \frac{xabc}{1} \cdot \frac{1}{a} + \frac{xabc}{1} \cdot \frac{1}{b} = \frac{xabc}{1} \cdot \frac{1}{c}$

$abc + \frac{xbc}{a} + \frac{xac}{b} = \frac{xabc}{c}$

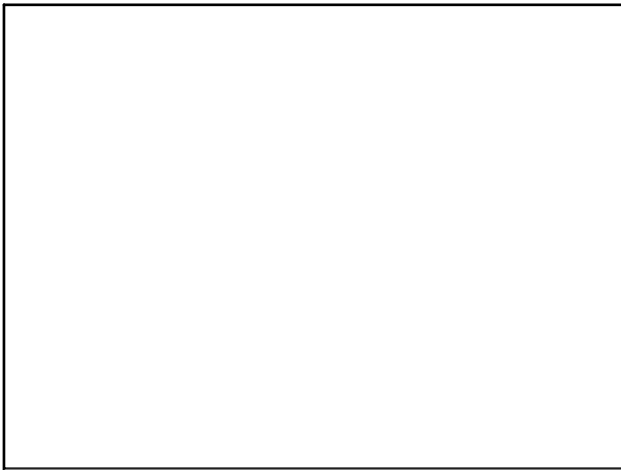
$abc + \frac{xbc}{a} + \frac{xac}{b} = \frac{xabc}{c}$   
 $-(xab) \quad -(xbc) \quad -(xac)$

$abc + \frac{xbc}{a} - \frac{xac}{b} = -\frac{xabc}{c}$

$a(bc + xc - (xb)) = -\frac{xabc}{c}$

$a = \frac{-xabc}{bc + xc - (xb)}$

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