

February 8, 2017

#1) $\frac{11}{12} - \frac{2}{3} \cdot 1\frac{1}{7}$
 $\frac{11}{12} - \left(\frac{2}{3} \cdot \frac{8}{7}\right)$
 $\frac{11}{12} - \frac{16}{21}$
 $\frac{231 - 192}{252}$
 $\frac{39}{252}$
 $\frac{13}{84}$

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#4) $\frac{\frac{3}{1} - \frac{1}{6}}{\frac{5}{1} - \frac{1}{2}} = \frac{\frac{18-1}{6}}{\frac{10-1}{2}} = \frac{\frac{17}{6}}{\frac{9}{2}}$
 $= \frac{17}{6} \cdot \frac{2}{9}$
 $= \frac{17}{27}$

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2.3
 #12) $\frac{9}{7} \left(-\frac{7}{3}x - \frac{2}{9} = -\frac{4}{3}\right)$ LCD: 9
 * Alternate method to solving equations containing fractions.
 • Find the LCD
 • Distribute the LCD through the whole equation to clear the denominators.
 $\left[\frac{9}{1} \cdot -\frac{7}{3}x + \frac{9}{1} \cdot \left(-\frac{2}{9}\right) = \frac{9}{1} \cdot \left(-\frac{4}{3}\right)\right]$
 $-21x - 2 = -12$
 $\frac{-21x}{-21} = \frac{-10}{-21}$
 $x = \frac{10}{21}$

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$x = \frac{10}{21}$
 $-\frac{1}{3} \left(\frac{10}{21}\right) - \frac{2}{9} = -\frac{1}{3}$
 $-\frac{10}{9} - \frac{2}{9} = -\frac{12}{9}$
 $-\frac{12}{9} = -\frac{12}{9}$
 $-\frac{4}{3} = -\frac{4}{3}$

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#22) $100(0.8x - 2.18 = 1.49)$
 • LCD that is a power of 10 to move the decimal points such that we have only integers.
 $80x - 218 = 149$
 $\frac{80x}{80} = \frac{367}{80}$
 $x = 4.5875$
 ≈ 4.6

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