

March 13, 2015  
LCD: 10

$$\#7) \left( \frac{2x}{5} + \frac{3}{5} = \frac{9}{10} \right)$$

$$4x + 6 = 9$$

$$4x = 3$$

$$x = \frac{3}{4}$$


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$$\frac{2 \cdot \left(\frac{3}{4}\right)}{5} + \frac{3}{5} = \frac{9}{10}$$

$$\frac{\frac{6}{4}}{5} + \frac{3}{5} = \frac{9}{10}$$

$$\frac{3}{2} \cdot \frac{1}{5} + \frac{3}{5} = \frac{9}{10}$$

$$\frac{3}{10} + \frac{3}{5} = \frac{9}{10}$$

$$\frac{3+6}{10} = \frac{9}{10} \checkmark$$

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$$\frac{2x}{5} + \frac{3}{5} = \frac{9}{10}$$

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

$$\frac{2x}{5} = \frac{9}{10} - \frac{3}{5}$$

$$= \frac{9-6}{10}$$

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

$$x = \frac{3}{4}$$

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#8)

$$\left( \frac{x}{2} - 1 = \frac{x}{5} + 2 \right)$$

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

$$5x - 10 = 2x + 20$$

$$-2x + 10 = -2x + 10$$

$$3x = 30$$

$$x = 10$$

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#3)

$$-(14x - 18) + 2(8x + 16) = 4(7)$$

$$-14x + 18 + 16x + 32 = 28$$

$$2x + 50 = 28$$

$$-50 \quad -50$$

$$2x = 22$$

$$x = 11$$

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$$-14 + 16$$

$$|-14| \quad |16|$$

$$14 < 16$$

$$16 - 14 = +2$$

$$(-14) + (16) = (16) + (-14)$$

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$$3x + 2 = 9$$

$$-2 \quad -2$$

$$3x = 7$$

$$x = \frac{7}{3}$$

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2.2  
#13)  $2 - 5z = 7z - 9 - z$

*Like*

$$-4z = 6z - 9$$

$$\begin{array}{r} -4z \\ -6z \end{array} = \begin{array}{r} 6z - 9 \\ -6z \end{array}$$

$$\frac{-10z}{-10} = \frac{-9}{-10}$$

$$z = \frac{9}{10}$$

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2.2  
#10)  $\frac{27}{1} \left( -\frac{7}{9}x \right) = \frac{14}{27}$  *LCD: 27*

$$\frac{-21x}{-21} = \frac{14}{-21} \quad \frac{27 \cdot 14}{1 \cdot 27}$$

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

$$\frac{27}{1} \cdot -\frac{7}{9}$$

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Fractions

$\frac{3}{4} + \frac{5}{1}$ * Not an equation! * Need LCD: 4 $\frac{3 + 20}{4 \rightarrow \text{LCD}}$ $\frac{23}{4}$ Done!	$\frac{3}{4} + 5x = 2$ * Now an Equation! * LCD: 4 $\left[ \frac{4}{1} \cdot \frac{3}{4} \right] + \left[ \frac{4}{1} \cdot 5x \right] = \left[ \frac{4}{1} \cdot 2 \right]$ $\frac{3}{1} + 20x = \frac{8}{1}$ $\frac{20x}{20} = \frac{5}{20}$ $x = \frac{1}{5}$
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