

Apr. 17, 2018

Mini-Lesson # 2 (TASK 1, 2 & 3)

Solving Fractional Equations

Feb 8-5:24 PM

Solve for t.

$$\frac{t}{4} = \frac{10}{20} \rightarrow \frac{t}{\cancel{4}} = \frac{10}{20} \times \left(\frac{4}{1}\right)$$

$$(4) \frac{t}{4} = \frac{1}{2} (4) \quad t = \frac{40}{20}$$

$$\boxed{t = 2} \quad \boxed{t = 2}$$

LCM
 4: 4
 2: 2

$$\frac{x}{4} = \frac{7}{10} \rightarrow \frac{x}{\cancel{4}} = \frac{7}{10} \left(\frac{4}{1}\right)$$

$$x = \frac{28}{10} \quad x = \frac{28}{10} = \frac{14}{5} = 2\frac{4}{5}$$

$$\boxed{= 2.8}$$

Mar 26-12:19 PM

TASK 1 only

$$\frac{x}{3} + \frac{1}{2} = \frac{5}{6}$$

$(\frac{2}{1}) \frac{1}{3}x + \frac{1}{2}(\frac{2}{1}) = \frac{5}{6}(\frac{2}{1})$
 $x + \frac{3}{2} = \frac{5}{3}$
 $x + \frac{3}{2} - \frac{3}{2} = \frac{5}{3} - \frac{3}{2}$
 $x = \frac{10}{6} - \frac{9}{6}$
 $x = \frac{1}{6}$

$x = 1$
 $\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

Your turn:

$$\frac{x}{4} + \frac{7}{4} = \frac{5}{6}$$

Mar 26-1:38 AM

TASK 1 only

$$\frac{x}{3} + \frac{1}{2} = \frac{5}{6}$$

LCM
 2: 2, 4, 8...
 3: 3, 6
 6: 6

$(\frac{2}{1}) \frac{x}{3} + \frac{1}{2}(\frac{2}{1}) = \frac{5}{6}(\frac{2}{1})$
 $2x + 3 = 5$
 $2x - 3 = 5 - 3$
 $2x = 2$
 $x = 1$

Your turn:

$$\frac{x}{4} + \frac{7}{4} = \frac{5}{6}$$

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$$\frac{x}{3} + \frac{1}{2} = \frac{5}{6}$$

LCM
 3: 3, 6, 9, 12, ...
 2: 2, 4, 6, 8, 10, ...
 6: 6

$$\frac{(6)}{1} \frac{x}{3} + \frac{(6)}{1} \frac{1}{2} = \frac{5(6)}{6} \frac{1}{1}$$

$$\frac{6x}{3} + \frac{6}{2} = \frac{30}{6}$$

$$2x + 3 = 5$$

$$2x = 2$$

$$x = 1$$

Your turn:

$$\frac{x}{4} + \frac{7}{4} = \frac{5}{6}$$

LCM:
 4: 4, 8, 12
 6: 6, 12

$$\frac{(12)}{1} \frac{x}{4} + \frac{(12)}{1} \frac{7}{4} = \frac{5(12)}{6} \frac{1}{1}$$

$$\frac{12x}{4} + \frac{84}{4} = \frac{60}{6}$$

$$3x + 21 = 10$$

$$3x = -11$$

$$x = -\frac{11}{3}$$

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