Solve.

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

$(6)\ \frac{5}{3} - \frac{3t}{3} = \frac{5t}{6} - \frac{10}{6}\ (6)$

$-5t \quad -5t$

$* \quad 10 - 6t = 5t - 10$

$-10 \quad -10$

$10 - 11t = -10$

$-11t = -20$

$\frac{-11t}{-11} = \frac{-20}{-11}$

$t = \frac{20}{11}$

Method 2...

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

$2(5 - 3t) = 5(t - 2)$

$10 - 6t = 5t - 10$

See previous question

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$$\overset{(12)}{\frac{x}{3}} + \overset{(12)}{\frac{x}{4}} = \overset{(12)}{x} - \overset{(12)}{\frac{1}{6}}$$

$4x + 3x = 12x - 2$

$-12x \quad -12x$

$-7x = 12x - 2$

$\frac{-5x}{-5} = \frac{-2}{-5}$

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

$$\overset{(24)}{\frac{x}{3}} + \overset{(24)}{\frac{x}{4}} = \overset{(24)}{x} - \overset{(24)}{\frac{1}{6}}$$

$8x + 6x = 24x - 4$

$-24x \quad -24x$

$14x = 24x - 4$

$\frac{-10x}{-10} = \frac{-4}{-10}$

$x = \frac{4}{10}$

$= \frac{2}{5}$

Concept reinforcement

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