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Algebra /

Solving a linear equation with several occurrences of the variable...

Solving a linear equation with several occurrences of the variable: Fractional forms with monomial numerators

Solve for w .

$$\frac{7w}{10} + 2 = \frac{5w}{6}$$

Simplify your answer as much as possible.

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Multiply everything by LCD

$$\frac{LCD}{30}$$

$$\frac{30}{10} \cdot \frac{7w}{10} + 2 \cdot \frac{30}{6} = \frac{5w}{6} \cdot \frac{30}{5}$$

$$\frac{21w}{10} + 60 = 25w$$

$$-21w \quad -21w$$

$$60 = 4w$$

$$\frac{60}{4} = \frac{4w}{4}$$

$$15 = w$$

$$\frac{40x}{8} + \frac{40x}{10} = \frac{9 \cdot 40}{8}$$

$$LCD = 40$$

$$10 \times 1 = 10$$

$$10 \times 2 = 20$$

$$10 \times 3 = 30$$

$$10 \times 4 = 40 \div 8 = 5$$

$$5x + 4x = 45$$

$$\frac{9x}{9} = \frac{45}{9}$$

$$x = 5$$

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