

Solve Equations (5-7)

Example 1: Solve a two-step equation by clearing fractions

I Do	We Do
$\frac{-5 \cdot 4}{6}x + \frac{3 \cdot 6}{4} = \frac{7 \cdot 3}{8}$ $\frac{-20x}{24} + \frac{18}{24} = \frac{21}{24}$ $-20x + \cancel{18} = 21 - \cancel{18}$ $\cancel{-20}x = \frac{3}{-20}$ $x = -\frac{3}{20}$	$\frac{1}{5}x - \frac{2}{3} = \frac{4}{15}$ $\frac{3}{15}x - \frac{10}{15} = \frac{4}{15}$ $3x - \cancel{10} = 4 + \cancel{10}$ $\cancel{3}x = \frac{14}{3}$ $x = 4\frac{2}{3}$

Example 2: Solve the two-step equation with decimals.

I Do	We Do Calc.
$100(0.4x + 3.9 = 5.78)$ $40x + \cancel{390} = 578 - \cancel{390}$ $\frac{40x}{40} = \frac{188}{40} \div 2$ $x = \frac{94}{20} \div 2$ $x = \frac{47}{10}$ $x = 4.7$	$2.9 = \cancel{1.7} + 0.3n$ $-1.7 \downarrow \cancel{+1.7}$ $\frac{1.2}{0.3} = \frac{0.3n}{0.3}$ $4 = n$