M9

Solving Equation with Fractions

3.6 Part 2

Removing Fractions from Equations

2. Equations with several fractions with different denominators.
   - **Find the LCM of all the denominators.**
   - Put each side in brackets.
   - Multiply each side by the **LCM.**
   - Reduce and multiply.
   - Solve

Examples: **Remove fractions. Do not solve.**

$\frac{x}{2}+\frac{1}{6}=5$	$6x-\frac{3}{4}=\frac{7}{10}$

Remove fractions. Do not solve.	
$\frac{6x}{3} - 2 = \frac{1}{7}$	$\frac{-2x}{3} - \frac{4}{9} = -\frac{1}{2}$

Examples: Solve Equations. Start with removing fractions from both sides. **Check your answers by showing that LS=RS after substituting into the original equation.**

$-\frac{x}{15}+\frac{3}{10}=2$	$3x-\frac{2}{5}=-\frac{7}{6}$
Check:	Check:

Your Turn: Solve Equations. Start with removing fractions from both sides. **Check your answers by showing that LS=RS after substituting into the original equation.**

$\frac{x}{4} = \frac{2}{3}$	$\frac{7x}{20} - 2 = -\frac{3}{5}$
Check:	Check: