

Learning Objective 1: To be able to solve linear equations in involving fractions

Learning Objective 2: To use cross-multiplying to solve particular types of equations

Solve the following equations

$\frac{x}{3} + \frac{1}{2} = \frac{5}{6}$	$\frac{2x}{5} + \frac{1}{10} = \frac{3}{10}$	$\frac{x}{7} - \frac{1}{14} = \frac{4}{7}$
$\frac{x}{6} + 2 = \frac{3}{12}$	$\frac{2x}{7} = 5$	$\frac{x}{5} - 2 = \frac{7}{30}$

Now, try and solve the following equations

$\frac{x+2}{3} + \frac{1}{2} = \frac{1}{6}$	$\frac{2x+5}{7} - \frac{3}{14} = 2$	$\frac{5x-2}{3} + \frac{1}{2} = \frac{5}{6}$
$\frac{5x-7}{8} = \frac{1}{16}$	$\frac{3(x-4)}{5} - \frac{1}{15} = 0$	$\frac{4-3x}{7} + \frac{1}{2} = \frac{5x+2}{14}$

Fractions which can be solved using 'cross-multiplying'

Solve these equations

$\frac{3x}{5} = 7$	$\frac{5}{7x} = 2$	$\frac{3}{2x+1} = 5$
$\frac{5(2x+1)}{3(4x+3)} = 2$	$\frac{4(3-2x)}{5(4+7x)} = 1$	$\frac{3}{2x+1} = \frac{7}{3x+2}$