



Air maths tuition

Interact, engage and perform

Solving Linear Inequalities

① $2x - 7 > 5$	② $26 > 5 - 3x$
$\therefore 2x > 5 + 7$	$\therefore 26 + 3x > 5$
$\therefore 2x > 12$	$\therefore 3x > 5 - 26$
$\therefore \frac{2x}{2} > \frac{12}{2}$	$\therefore 3x > -21$
$\therefore x > 6$	$\therefore \frac{3x}{3} > \frac{-21}{3}$
	$\therefore x > -7$
②a $26 > 5 - 3x$	②b $26 > 5 - 3x$
$-26 < -5 + 3x$	$\therefore 21 > -3x$
$\therefore -21 < 3x$	$\therefore \frac{21}{-3} < \frac{-3x}{-3}$
$\therefore -\frac{21}{3} < \frac{3x}{3}$	$\therefore -7 < x$
$\therefore -7 < x$	$\therefore x > -7$
$\therefore x > -7$	

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