

Objective 1: Express inequalities on a number line

Objective 2: Find integer solutions satisfying given inequalities

Part 1:

$x < 4$	$x < -2$	$x > 3$	$x > -2$
$x \leq 3$	$4 \leq x$	$-3 \geq x$	$x \geq 0$

Part 2:

$0 < x < 4$	$-2 < x \leq 7$	$-3 \leq x \leq -1$	$-2 \leq x < 11$
$-3 < x \leq -1$	$0.5 < x < 1$	$-1.5 \leq x \leq 0.5$	$4 \geq x > 2$

Part 3: By drawing a number line to help if necessary, write down all the integer solutions satisfying the following inequalities

$0 < x < 3$	$3 < x \leq 12$	$-3 \leq x \leq 0$	$-3 \leq x < 2$
$4 \leq x \leq 5$	$3 < x < 4$	$4 < x < 6$	$1.5 \leq x \leq 2.5$

Part 4: find the all the integer solutions satisfying the following inequalities

$2 \leq 2x \leq 4$	$3 < 3x \leq 12$	$12 < 3x < 30$	$1 < 2x < 8$
$1 \leq 5x \leq 20$	$0 < 6x < 17$	$-6 \leq 2x < 10$	$-5 < 2x < 4$

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Objective 1: To solve inequalities using normal algebraic rules

Objective 2: Representing these solutions on a number line

Solve the following inequalities and express your solutions using a quick number line

Part 1:

$3x + 1 < 19$	$4x - 3 > 18$	$7x - 2 > 1$	$5x + 11 < 4$
$4x > 2x + 7$	$3x + 5 \leq 2$	$4(x + 2) \geq 17$	$3(x - 2) < 11$

Part 2:

$3x + 2 < x + 6$	$5x - 2 > 2x + 7$	$11x + 7 > 4x + 12$	$6x + 2 \leq 3x - 8$
$\frac{x}{3} + 3 > \frac{1}{2}$	$4(x - 3) \leq 2x + 10$	$\frac{3x}{5} + \frac{1}{2} < \frac{1}{10}$	$7(x - 2) + 3 > x - 9$

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Part 1:

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$4x > 2x + 7$	$3x + 5 \leq 2$	$4(x + 2) \geq 17$	$3(x - 2) < 11$

Part 2:

$3x + 2 < x + 6$	$5x - 2 > 2x + 7$	$11x + 7 > 4x + 12$	$6x + 2 \leq 3x - 8$
$\frac{x}{3} + 3 > \frac{1}{2}$	$4(x - 3) \leq 2x + 10$	$\frac{3x}{5} + \frac{1}{2} < \frac{1}{10}$	$7(x - 2) + 3 > x - 9$