

INDIAN SCHOOL AL WADI AL KABIR DEPARTMENT OF MATHEMATICS 2024 – 2025 Work Sheet – Class XI - Linear Inequalities



1 Solve:
$$\frac{5-2x}{3} \le \frac{x}{6} - 5$$

Solve:
$$-15 < \frac{3(x-2)}{5} \le 0$$

Solve:
$$2x + 10 \ge 0$$
 and represent the solution on a number line.

Solve:
$$4-x \le 3x+12$$
 and represent the solution on a number line.

Solve: the inequality:
$$\frac{x}{2} < \frac{5x-2}{3} - \frac{7x-3}{5}$$
.

6 Solve: the inequality :
$$37 - (3x + 5) \ge 9x - 8(x - 3)$$
.

7 Solve:
$$x + \frac{x}{2} + \frac{x}{3} < 11$$
.

8 Solve:
$$\frac{2x-3}{4} + 8 \ge 2 + \frac{4x}{3}$$

9 Solve:
$$|2x - 1| \le 3$$
.

Solve the following system of inequations:
$$3x-7>2(x-6)$$
: $6-x>11-2x$

11 Solve:
$$\frac{1}{2} \left(\frac{3x}{5} - 4 \right) \ge \frac{1}{3} (x - 6)$$

$$2x + 9 > 5 - 3x$$
; $5x - 7 \le 3x + 11$.

Solve:
$$\frac{3x-4}{2} \ge \frac{x+1}{4} - 1$$

Solve:
$$7 \le \frac{3x + 11}{2} \le 11$$

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Linear Inequality (Answer Key)

