

## Worksheet: Linear Inequalities

Uttar Pradesh State Board · Class 11 · Mathematics · 3 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** Solve:  $3x + 9 > 0$  and represent the solution on a number line. [2 marks]

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**Q2.** Solve:  $5 < x < 10$  and write the solution in interval notation. [4 marks]

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**Q3.** Solve graphically:  $2x + 3y \leq 2$ ,  $x \geq 0$ ,  $y \geq 0$ . [5 marks]

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