



# MATHS

BOOKS - JEEVITH PUBLICATIONS

MATHS (KANNADA ENGLISH)

## LINEAR INEQUALITY

Two Marks Questions With Answer

1. Solve  $30x < 200$ , when (i) is  $x$  a natural number



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**2. Solve  $30x < 200$ ,  $x$  is an integer**



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**3. Solve  $5x - 3 < 3x + 5$  for real  $x$**



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4. Solve  $-12x > 30$ , when (i) is a natural number



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5. Solve  $-12x > 30$ , x is an integer.



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6. Solve  $5x - 3 < 7$  when , x is an integer



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7. Solve  $5x - 3 < 7$  when ,  $x$  is real number



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8. Solve  $\frac{5 - 2x}{3} \leq \frac{x}{6} - 10$



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9.  $|7x - 2| \leq 11$



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10. Solve  $4x + 3 < 6x + 7$



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11. Solve  $\frac{3(x - 2)}{5} \leq \frac{5(2 - x)}{3}$



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12. Solve  $\frac{1}{2} \left( \frac{3x}{5} + 4 \right) \geq \frac{1}{3} (x - 6)$



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13. Solve  $37 - (3x + 5) \geq 9x - 8(x - 3)$



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14. Solve  $\frac{x + 8}{x - 2} > 2$



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15. Solve  $5x - 3 > 3x - 5$  and show the graph of the solution on a number line.

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16. Solve  $3(1 - x) < 2(x + 4)$  and show the graph of the solution on number line.

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17. Solve  $\frac{3(x - 2)}{5} \leq \frac{5(2 - x)}{3}$

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**18.** Solve  $7x + 3 < 5x + 9$ . Show the graph of the solution on number line.



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**19.** Find all pairs of consecutive odd numbers, both of which are larger such that their sum is less than 40.



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**20.** Ravi obtained 70 and 75 marks in first two unit tests. Find the minimum number should get in the third test to have an average of at least 60 marks.



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**21.** Find all pairs of consecutive odd numbers, both of which are smaller such that their sum is more than 11.



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22. The longest side of a triangle is 3 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is at least 61 cm, find the minimum length of the shortest side.



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## Three Marks Questions With Answer

1. Solve graphically  $2x + y \geq 6$



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2. Solve graphically  $y + 8 \geq 2x$



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3. Solve graphically  $2x + y \geq 6$



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4. Solve graphically the inequation

$$x + 2y - 4 < 0$$



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5. Solve the system of inequalities

$$3x - 7 < x + 5$$

$$11 - 5x \leq 1$$



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6. Solve the following system of inequations in

2 variables graphically:

$$x + 2y \geq 20, 3x + y \leq 15$$



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7. Solve the following system of inequations in

2 variables graphically:

$$x - y \leq 2, 2x + y \leq 6, x \geq 0, y \geq 0$$



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8. Solve graphically

$$3x + 2y \leq 12, x \geq 1, y \geq 2$$



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9. Solve graphically  $x + y \geq 4, 2x - y > 0$



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10. Solve graphically  $x + y < 9, y \geq x, x \geq 0$



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11.

Solve

graphically

$$2x + y \geq 4, x + y \leq 3, 2x - 3y \leq 6, x \geq 0, y \geq 0$$



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12.

Solve

graphically

$$x + 2y \leq 10, x + y \geq 1, x - y \leq 0, y \leq 0$$



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13.

Solve

graphically

$$x + 2y \leq 10, x + y \geq 1, x - y \leq 0, y \leq 0$$



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