Linear Inequalities A small set of problems

Abhinava, This one's for you. :)

Level 1

Problem 1

Solve $5x < 27$ when x is a natural number.

Problem 2

Solve $4x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{4x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 16 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 17.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 7 cm shorter than the longest side. If the perimeter of the triangle is atleast 74 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $2x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Ajith , This one's for you. :)

Level 1

Problem 1

Solve $5x < 25$ when x is a natural number.

Problem 2

Solve $6x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 18 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 18.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 6 cm shorter than the longest side. If the perimeter of the triangle is atleast 94 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Aaron, This one's for you. :)

Level 1

Problem 1

Solve $5x < 21$ when x is a natural number.

Problem 2

Solve $4x + 5 > 13$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 19 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 3 cm shorter than the longest side. If the perimeter of the triangle is atleast 71 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Aysha, This one's for you. :)

Level 1

Problem 1

Solve $5x < 28$ when x is a natural number.

Problem 2

Solve $4x + 5 > 13$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 17 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 89 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Chinmay, This one's for you. :)

Level 1

Problem 1

Solve $5x < 30$ when x is a natural number.

Problem 2

Solve $4x + 5 > 15$ when x is a real number.

Problem 3

Solve $\frac{2(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{4x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 10 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 15.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 81 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Clive, This one's for you. :)

Level 1

Problem 1

Solve $5x < 28$ when x is a natural number.

Problem 2

Solve $3x + 5 > 11$ when x is a real number.

Problem 3

Solve $\frac{3(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 19 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 11.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 79 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Devagnik, This one's for you. :)

Level 1

Problem 1

Solve $5x < 20$ when x is a natural number.

Problem 2

Solve $4x + 5 > 13$ when x is a real number.

Problem 3

Solve $\frac{7(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{2x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 12 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 11.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 89 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Drishya, This one's for you. :)

Level 1

Problem 1

Solve $5x < 20$ when x is a natural number.

Problem 2

Solve $3x + 5 > 13$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 11 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 4 cm shorter than the longest side. If the perimeter of the triangle is atleast 99 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $2x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Eesh, This one's for you. :)

Level 1

Problem 1

Solve $5x < 29$ when x is a natural number.

Problem 2

Solve $3x + 5 > 15$ when x is a real number.

Problem 3

Solve $\frac{8(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 18 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 18.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 6 cm shorter than the longest side. If the perimeter of the triangle is atleast 98 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Fahima, This one's for you. :)

Level 1

Problem 1

Solve $5x < 22$ when x is a natural number.

Problem 2

Solve $5x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{9(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 11 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 15.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 78 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $2x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Goutam, This one's for you. :)

Level 1

Problem 1

Solve $5x < 30$ when x is a natural number.

Problem 2

Solve $3x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{8(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{2x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 18 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 11.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 7 cm shorter than the longest side. If the perimeter of the triangle is atleast 76 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Gurupreeth, This one's for you. :)

Level 1

Problem 1

Solve $5x < 29$ when x is a natural number.

Problem 2

Solve $6x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{9(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 10 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 19.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 7 cm shorter than the longest side. If the perimeter of the triangle is atleast 74 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Haleema, This one's for you. :)

Level 1

Problem 1

Solve $5x < 24$ when x is a natural number.

Problem 2

Solve $6x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 14 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 20.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 7 cm shorter than the longest side. If the perimeter of the triangle is atleast 70 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Jehan, This one's for you. :)

Level 1

Problem 1

Solve $5x < 20$ when x is a natural number.

Problem 2

Solve $3x + 5 > 12$ when x is a real number.

Problem 3

Solve $\frac{8(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 12 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 6 cm shorter than the longest side. If the perimeter of the triangle is atleast 94 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Joseph, This one's for you. :)

Level 1

Problem 1

Solve $5x < 29$ when x is a natural number.

Problem 2

Solve $4x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{7(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 17 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 18.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 3 cm shorter than the longest side. If the perimeter of the triangle is atleast 99 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Kaneeksha, This one's for you. :)

Level 1

Problem 1

Solve $5x < 26$ when x is a natural number.

Problem 2

Solve $5x + 5 > 11$ when x is a real number.

Problem 3

Solve $\frac{4(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 10 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 17.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 95 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Likhith, This one's for you. :)

Level 1

Problem 1

Solve $5x < 29$ when x is a natural number.

Problem 2

Solve $5x + 5 > 15$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 14 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 19.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 6 cm shorter than the longest side. If the perimeter of the triangle is atleast 96 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Lloyd, This one's for you. :)

Level 1

Problem 1

Solve $5x < 25$ when x is a natural number.

Problem 2

Solve $6x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{6(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 10 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 18.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 84 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Mahzarin, This one's for you. :)

Level 1

Problem 1

Solve $5x < 26$ when x is a natural number.

Problem 2

Solve $3x + 5 > 13$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 16 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 17.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 72 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Mesha, This one's for you. :)

Level 1

Problem 1

Solve $5x < 28$ when x is a natural number.

Problem 2

Solve $4x + 5 > 12$ when x is a real number.

Problem 3

Solve $\frac{3(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 12 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 17.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 84 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Rohan, This one's for you. :)

Level 1

Problem 1

Solve $5x < 20$ when x is a natural number.

Problem 2

Solve $5x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{3(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 19 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 3 cm shorter than the longest side. If the perimeter of the triangle is atleast 81 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Pratam, This one's for you. :)

Level 1

Problem 1

Solve $5x < 30$ when x is a natural number.

Problem 2

Solve $4x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{3(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 20 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 18.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 3 cm shorter than the longest side. If the perimeter of the triangle is atleast 83 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Preethika, This one's for you. :)

Level 1

Problem 1

Solve $5x < 21$ when x is a natural number.

Problem 2

Solve $5x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{7(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 18 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 10.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 4 cm shorter than the longest side. If the perimeter of the triangle is atleast 92 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Samarth, This one's for you. :)

Level 1

Problem 1

Solve $5x < 26$ when x is a natural number.

Problem 2

Solve $5x + 5 > 11$ when x is a real number.

Problem 3

Solve $\frac{7(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 19 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 20.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 7 cm shorter than the longest side. If the perimeter of the triangle is atleast 86 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Shreesha, This one's for you. :)

Level 1

Problem 1

Solve $5x < 22$ when x is a natural number.

Problem 2

Solve $4x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{6(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{2x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 13 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 20.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 7 cm shorter than the longest side. If the perimeter of the triangle is atleast 71 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $2x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Siddharth , This one's for you. :)

Level 1

Problem 1

Solve $5x < 25$ when x is a natural number.

Problem 2

Solve $6x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{9(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 10 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 5 cm shorter than the longest side. If the perimeter of the triangle is atleast 77 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Simaz, This one's for you. :)

Level 1

Problem 1

Solve $5x < 23$ when x is a natural number.

Problem 2

Solve $5x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{3(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 20 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 10.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 5 cm shorter than the longest side. If the perimeter of the triangle is atleast 82 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Subhiksha, This one's for you. :)

Level 1

Problem 1

Solve $5x < 25$ when x is a natural number.

Problem 2

Solve $3x + 5 > 15$ when x is a real number.

Problem 3

Solve $\frac{2(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{2x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 12 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 3 cm shorter than the longest side. If the perimeter of the triangle is atleast 77 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Sudhamshu, This one's for you. :)

Level 1

Problem 1

Solve $5x < 29$ when x is a natural number.

Problem 2

Solve $5x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{10(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{2x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 14 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 5 cm shorter than the longest side. If the perimeter of the triangle is atleast 96 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $4x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Suhan, This one's for you. :)

Level 1

Problem 1

Solve $5x < 25$ when x is a natural number.

Problem 2

Solve $4x + 5 > 14$ when x is a real number.

Problem 3

Solve $\frac{2(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{5x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 15 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 12.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 2 cm shorter than the longest side. If the perimeter of the triangle is atleast 78 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Pranav, This one's for you. :)

Level 1

Problem 1

Solve $5x < 27$ when x is a natural number.

Problem 2

Solve $3x + 5 > 10$ when x is a real number.

Problem 3

Solve $\frac{9(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 19 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 18.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 4 cm shorter than the longest side. If the perimeter of the triangle is atleast 85 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 2$, $2x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Teesha, This one's for you. :)

Level 1

Problem 1

Solve $5x < 21$ when x is a natural number.

Problem 2

Solve $3x + 5 > 12$ when x is a real number.

Problem 3

Solve $\frac{4(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{6x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 15 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 17.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 5 cm shorter than the longest side. If the perimeter of the triangle is atleast 92 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 3$, $5x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?

Linear Inequalities A small set of problems

Varun, This one's for you. :)

Level 1

Problem 1

Solve $5x < 27$ when x is a natural number.

Problem 2

Solve $3x + 5 > 12$ when x is a real number.

Problem 3

Solve $\frac{5(x-3)}{4} \geq \frac{5(3-x)}{7}$.

Problem 4

Solve $\frac{3x-5}{3} - \frac{7x-3}{5} \leq \frac{3x}{4}$.

Problem 5

Mr. A obtained 19 and 18 in first two tests. Find the minimum mark he should get in the third test to have an average of 16.

Problem 6

The longest side of a triangle is 4 times the shortest side and the third side is 3 cm shorter than the longest side. If the perimeter of the triangle is atleast 86 cm, find the minimum length of the shortest side.

Problem 7

Solve the inequalities $x - 2y \leq 1$, $3x + 4y \geq 12$ and $x \geq 0, y \geq 1$ graphically.

Level 2

Problem 8

Attendence of a student was 50% at the beginning of a semester. The attendence then becomes 90% at the end of that semester. Was there a point in time during that semester, that the attendence was 75%?