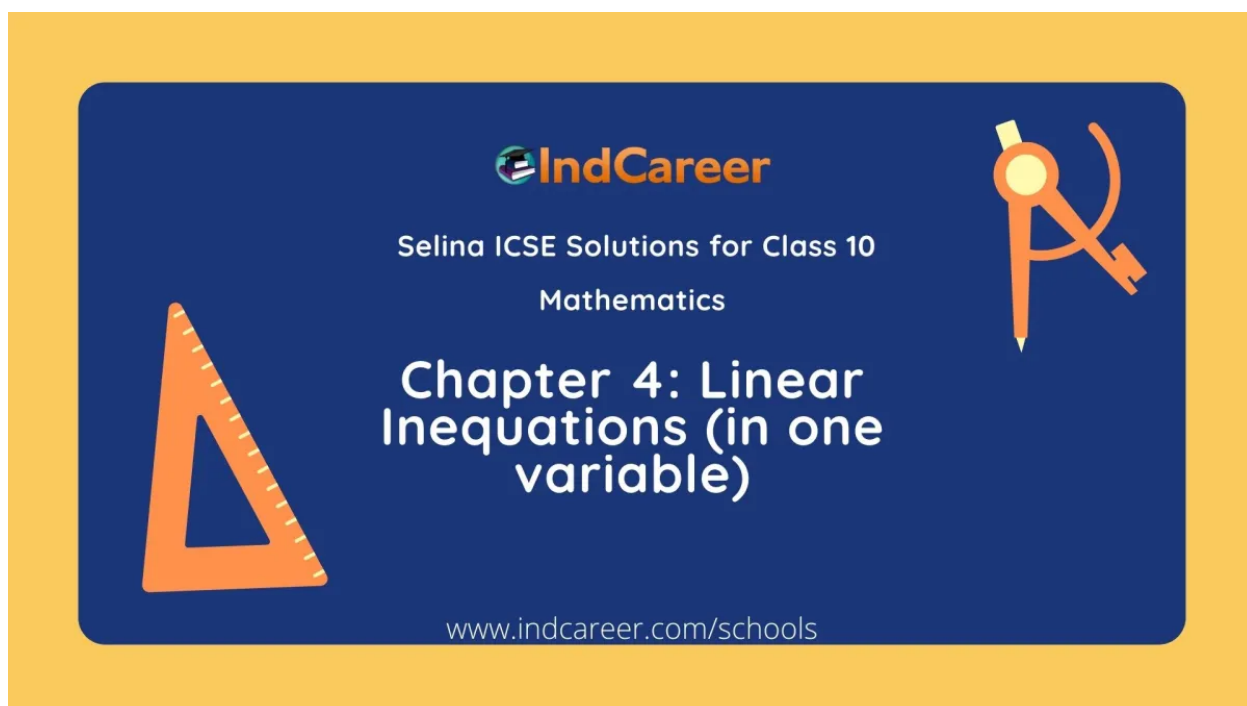


Selina Class 10 ICSE Solutions Mathematics :

Chapter 4 - Linear Inequations (in one variable)



For any clarifications or questions you can write to info@indcareer.com

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Selina Class 10 ICSE Solutions Mathematics :

Chapter 4 - Linear Inequations (in one variable)

Class 10: Maths Chapter 4 solutions. Complete Class 10 Maths Chapter 4 Notes.

Selina Class 10 ICSE Solutions Mathematics : Chapter 4 - Linear Inequations (in one variable)

Selina 10th Maths Chapter 4, Class 10 Maths Chapter 4 solutions

Exercise 4A

Question 1.

State, true or false:

(i) $x < -y \Rightarrow -x > y$

(ii) $-5x \geq 15 \Rightarrow x \geq -3$

(iii) $2x \leq -7 \Rightarrow \frac{2x}{-4} \geq \frac{-7}{-4}$

(iv) $7 > 5 \Rightarrow \frac{1}{7} < \frac{1}{5}$

Solution:

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(i) $x < -y \Rightarrow -x > y$

The given statement is true.

(ii) $-5x \geq 15 \Rightarrow \frac{-5x}{5} \geq \frac{15}{5} \Rightarrow x \leq -3$

The given statement is false.

(iii) $2x \leq -7 \Rightarrow \frac{2x}{-4} \geq \frac{-7}{-4}$

The given statement is true.

(iv) $7 > 5 \Rightarrow \frac{1}{7} < \frac{1}{5}$

The given statement is true.

Question 2.

State, whether the following statements are true or false:

(i) $a < b$, then $a - c < b - c$ (ii) If $a > b$, then $a + c > b + c$

(iii) If $a < b$, then $ac > bc$

(iv) If $a > b$, then $ac < bc$

(v) If $a - c > b - d$, then $a + d > b + c$

(vi) If $a < b$, and $c > 0$, then $a - c > b - c$

Where a , b , c and d are real numbers and $c \neq 0$.

Solution:

(i) $a < b \Rightarrow a - c < b - c$ The given statement is true.

(ii) If $a > b \Rightarrow a + c > b + c$

The given statement is true.

(iii) If $a < b \Rightarrow ac < bc$ The given statement is false.

(iv) If $a > b \Rightarrow ac > bc$

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The given statement is false.

(v) If $a - c > b - d \Rightarrow a + d > b + c$

The given statement is true.

(vi) If $a < b \Rightarrow a - c < b - c$ (Since, $c > 0$)

The given statement is false.

Question 3.

If $x \in \mathbb{N}$, find the solution set of inequations.

(i) $5x + 3 \leq 2x + 18$

(ii) $3x - 2 < 19 - 4x$

Solution:

(i) $5x + 3 \leq 2x + 18$

$$5x - 2x \leq 18 - 3$$

$$3x \leq 15$$

$$x \leq 5$$

Since, $x \in \mathbb{N}$, therefore solution set is $\{1, 2, 3, 4, 5\}$.

(ii) $3x - 2 < 19 - 4x$

$$3x + 4x < 19 + 2$$

$$7x < 21$$

$$x < 3$$

Since, $x \in \mathbb{N}$, therefore solution set is $\{1, 2\}$.

Question 4.

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If the replacement set is the set of whole numbers, solve:

(i) $x + 7 \leq 11$

(ii) $3x - 1 > 8$

(iii) $8 - x > 5$

(iv) $7 - 3x \geq -\frac{1}{2}$

(v) $x - \frac{3}{2} < \frac{3}{2} - x$

(vi) $18 \leq 3x - 2$

Solution:

(i) $x + 7 \leq 11$

$$x \leq 11 - 7$$

$$x \leq 4$$

Since, the replacement set = W (set of whole numbers)

$$\Rightarrow \text{Solution set} = \{0, 1, 2, 3, 4\}$$

(ii) $3x - 1 > 8$

$$3x > 8 + 1$$

$$x > 3$$

Since, the replacement set = W (set of whole numbers)

$$\Rightarrow \text{Solution set} = \{4, 5, 6, \dots\}$$

(iii) $8 - x > 5$

$$-x > 5 - 8$$

$$-x > -3$$

$$x < 3$$

Since, the replacement set = W (set of whole numbers)

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$\Rightarrow$ Solution set = $\{0, 1, 2\}$

$$(iv) 7 - 3x \geq -\frac{1}{2}$$

$$-3x \geq -\frac{1}{2} - 7$$

$$-3x \geq -\frac{15}{2}$$

$$x \leq \frac{5}{2}$$

Since, the replacement set = W (set of whole numbers)

$\therefore$ Solution set = $\{0, 1, 2\}$

$$(v) x - \frac{3}{2} < \frac{3}{2} - x$$

$$x + x < \frac{3}{2} + \frac{3}{2}$$

$$2x < 3$$

$$x < \frac{3}{2}$$

Since, the replacement set = W (set of whole numbers)

$\therefore$ Solution set = $\{0, 1\}$

$$(vi) 18 \leq 3x - 2$$

$$18 + 2 \leq 3x$$

$$20 \leq 3x$$

$$x \geq 203$$

Since, the replacement set = W (set of whole numbers)

$\therefore$ Solution set = $\{7, 8, 9, \dots\}$

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Question 5.

Solve the inequation:

$$3 - 2x \geq x - 12 \text{ given that } x \in \mathbb{N}.$$

Solution:

$$3 - 2x \geq x - 12$$

$$-2x - x \geq -12 - 3$$

$$-3x \geq -15$$

$$x \leq 5$$

Since, $x \in \mathbb{N}$, therefore,

Solution set = $\{1, 2, 3, 4, 5\}$

Question 6.

If $25 - 4x \leq 16$, find:

(i) the smallest value of x , when x is a real number,

(ii) the smallest value of x , when x is an integer.

Solution:

$$25 - 4x \leq 16$$

$$-4x \leq 16 - 25$$

$$-4x \leq -9$$

$$x \geq 94$$

$$x \geq 2.25$$

(i) The smallest value of x , when x is a real number, is 2.25.

(ii) The smallest value of x , when x is an integer, is 3.

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Question 7.

If the replacement set is the set of real numbers, solve:

(i) $-4x \geq -16$

(ii) $8 - 3x \leq 20$

(iii) $5 + \frac{x}{4} > \frac{x}{5} + 9$

(iv) $\frac{x+3}{8} < \frac{x-3}{5}$

Solution:

$$(i) -4x \geq -16$$

$$x \leq 4$$

Since, the replacement set of real numbers.

$\therefore$ Solution set = $\{x: x \in \mathbb{R} \text{ and } x \leq 4\}$

$$(ii) 8 - 3x \leq 20$$

$$-3x \leq 20 - 8$$

$$-3x \leq 12$$

$$x \geq -4$$

Since, the replacement set of real numbers.

$\therefore$ Solution set = $\{x: x \in \mathbb{R} \text{ and } x \geq -4\}$

$$(iii) 5 + \frac{x}{4} > \frac{x}{5} + 9$$

$$\frac{x}{4} - \frac{x}{5} > 9 - 5$$

$$\frac{x}{20} > 4$$

$$x > 80$$

Since, the replacement set of real numbers.

$\therefore$ Solution set = $\{x: x \in \mathbb{R} \text{ and } x > 80\}$

$$(iv) \frac{x+3}{8} < \frac{x-3}{5}$$

$$5x + 15 < 8x - 24$$

$$5x - 8x < -24 - 15$$

$$-3x < -39$$

$$x > 13$$

Since, the replacement set of real numbers.

$\therefore$ Solution set = $\{x: x \in \mathbb{R} \text{ and } x > 13\}$

Question 8.

Find the smallest value of x for which $5 - 2x < 5\frac{1}{2} - \frac{5}{3}x$, where x is an integer.

Solution:

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$$5 - 2x < 5\frac{1}{2} - \frac{5}{3}x$$

$$-2x + \frac{5}{3}x < \frac{11}{2} - 5$$

$$\frac{-x}{3} < \frac{1}{2}$$

$$-x < \frac{3}{2}$$

$$x > \frac{-3}{2}$$

$$x > -1.5$$

Thus, the required smallest value of x is -1 .

Question 9.

Find the largest value of x for which

$$2(x - 1) \leq 9 - x \text{ and } x \in W.$$

Solution:

$$2(x - 1) \leq 9 - x$$

$$2x - 2 \leq 9 - x$$

$$2x + x \leq 9 + 2$$

$$3x \leq 11$$

$$x \leq \frac{11}{3}$$

$$x \leq 3.67$$

Since, $x \in W$, thus the required largest value of x is 3 .

Question 10.

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Solve the inequation: $12 + 1\frac{5}{6}x \leq 5 + 3x$ and $x \in \mathbb{R}$.

Solution:

$$12 + 1\frac{5}{6}x \leq 5 + 3x$$

$$\frac{11}{6}x - 3x \leq 5 - 12$$

$$\frac{-7}{6}x \leq -7$$

$$x \geq 6$$

$\therefore$ Solution set = $\{x: x \in \mathbb{R} \text{ and } x \geq 6\}$

Question 11.

Given $x \in \{\text{integers}\}$, find the solution set of:

$$-5 \leq 2x - 3 < x + 2$$

Solution:

$$-5 \leq 2x - 3 < x + 2$$

$$\Rightarrow -5 \leq 2x - 3 \quad \text{and} \quad 2x - 3 < x + 2$$

$$\Rightarrow -5 + 3 \leq 2x \quad \text{and} \quad 2x - x < 2 + 3$$

$$\Rightarrow -2 \leq 2x \quad \text{and} \quad x < 5$$

$$\Rightarrow x \geq -1 \quad \text{and} \quad x < 5$$

Since, $x \in \{\text{integers}\}$

$\therefore$ Solution set = $\{-1, 0, 1, 2, 3, 4\}$

Question 12.

Given $x \in \{\text{whole numbers}\}$, find the solution set of:

$$-1 \leq 3 + 4x < 23$$

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Solution:

$$-1 \leq 3 + 4x < 23$$

$$\Rightarrow -1 \leq 3 + 4x$$

$$\text{and } 3 + 4x < 23$$

$$\Rightarrow -4 \leq 4x$$

$$\text{and } 4x < 20$$

$$\Rightarrow x \geq -1$$

$$\text{and } x < 5$$

Since, $x \in \{\text{whole numbers}\}$

$\therefore$ Solution set = $\{0, 1, 2, 3, 4\}$

Exercise 4B

Question 1.

Represent the following inequalities on real number lines:

(i) $2x - 1 < 5$

(ii) $3x + 1 \geq -5$

(iii) $2(2x - 3) \leq 6$

(iv) $-4 < x < 4$

(v) $-2 \leq x < 5$

(vi) $8 \geq x > -3$

(vii) $-5 < x \leq -1$

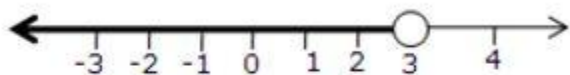
Solution:

(i) $2x - 1 < 5$

$$2x < 6$$

$$x < 3$$

Solution on number line is:

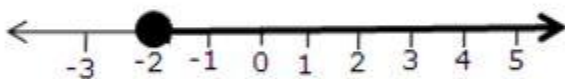


(ii) $3x + 1 \geq -5$

$$3x \geq -6$$

$$x \geq -2$$

Solution on number line is:



(iii) $2(2x - 3) \leq 6$

$$2x - 3 \leq 3$$

$$2x \leq 6$$

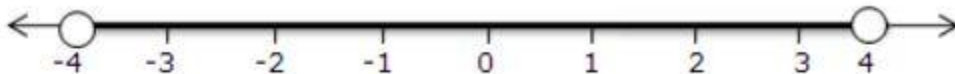
$$x \leq 3$$

Solution on number line is:



(iv) $-4 < x < 4$

Solution on number line is:



(v) $-2 \leq x < 5$

Solution on number line is:



(vi) $8 \geq x > -3$

Solution on number line is:



(vii) $-5 < x \leq -1$

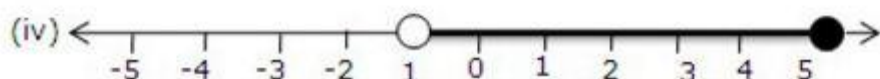
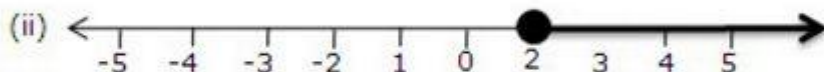
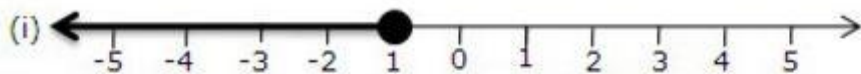
Solution on number line is:



Question 2.

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For each graph given, write an inequation taking x as the variable:



Solution:

(i) $x \leq -1, x \in \mathbb{R}$

(ii) $x \geq 2, x \in \mathbb{R}$

(iii) $-4 \leq x < 3, x \in \mathbb{R}$

(iv) $-1 < x \leq 5, x \in \mathbb{R}$

Question 3.

For the following inequations, graph the solution set on the real number line:

(i) $-4 \leq 3x - 1 < 8$

(ii) $x - 1 < 3 - x \leq 5$

Solution:

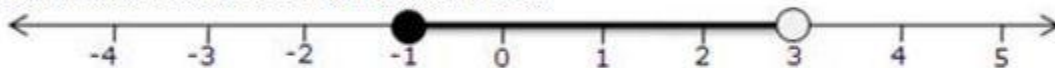
<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

(i) $-4 \leq 3x - 1 < 8$

$-4 \leq 3x - 1$ and $3x - 1 < 8$

$-1 \leq x$ and $x < 3$

The solution set on the real number line is:



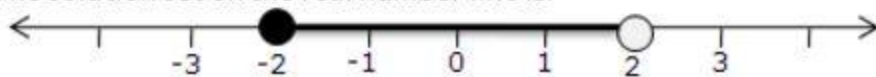
(ii) $x - 1 < 3 - x \leq 5$

$x - 1 < 3 - x$ and $3 - x \leq 5$

$2x < 4$ and $-x \leq 2$

$x < 2$ and $x \geq -2$

The solution set on the real number line is:



Question 4.

Represent the solution of each of the following inequalities on the real number line:

(i) $4x - 1 > x + 11$

(ii) $7 - x \leq 2 - 6x$

(iii) $x + 3 \leq 2x + 9$

(iv) $2 - 3x > 7 - 5x$

(v) $1 + x \geq 5x - 11$

(vi) $\frac{2x+5}{3} > 3x-3$

Solution:

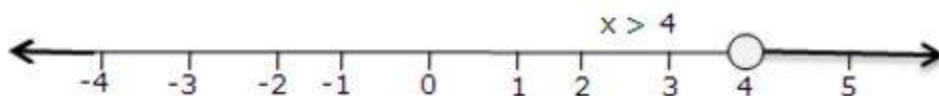
<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

(i) $4x - 1 > x + 11$

$$3x > 12$$

$$x > 4$$

The solution on number line is:



(ii) $7 - x \leq 2 - 6x$

$$5x \leq -5$$

$$x \leq -1$$

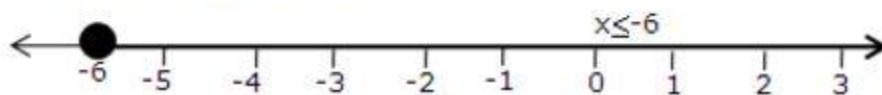
The solution on number line is:



(iii) $x + 3 \leq 2x + 9$

$$-6 \leq x$$

The solution on number line is:



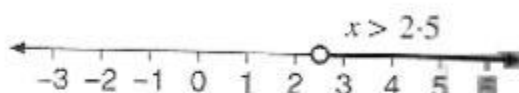
$$(iv) 2 - 3x > 7 - 5x$$

$$2x > 5$$

$$x > \frac{5}{2}$$

$$x > 2.5$$

The solution on number line is:

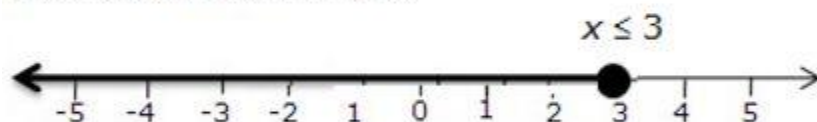


$$(v) 1 + x \geq 5x - 11$$

$$12 \geq 4x$$

$$3 \geq x$$

The solution on number line is:



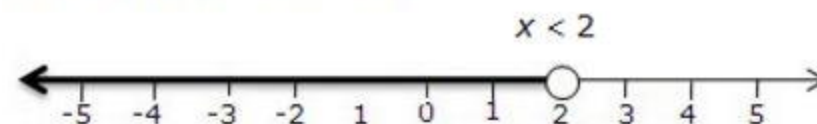
$$(vi) \frac{2x + 5}{3} > 3x - 3$$

$$2x + 5 > 9x - 9$$

$$-7x > -14$$

$$x < 2$$

The solution on number line is:



Question 5.

$x \in \{\text{real numbers}\}$ and $-1 < 3 - 2x \leq 7$, evaluate x and represent it on a number line.

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Solution:

$$-1 < 3 - 2x \leq 7$$

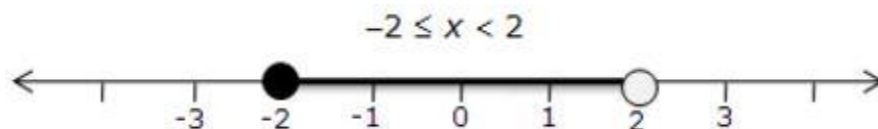
$$-1 < 3 - 2x \text{ and } 3 - 2x \leq 7$$

$$2x < 4 \text{ and } -2x \leq 4$$

$$x < 2 \text{ and } x \geq -2$$

$$\text{Solution set} = \{-2 \leq x < 2, x \in \mathbb{R}\}$$

Thus, the solution can be represented on a number line as:



Question 6.

List the elements of the solution set of the inequation

$$-3 < x - 2 \leq 9 - 2x; x \in \mathbb{N}.$$

Solution:

$$-3 < x - 2 \leq 9 - 2x$$

$$-3 < x - 2 \text{ and } x - 2 \leq 9 - 2x$$

$$-1 < x \text{ and } 3x \leq 11$$

$$-1 < x \leq 11/3$$

Since, $x \in \mathbb{N}$

$$\therefore \text{Solution set} = \{1, 2, 3\}$$

Question 7.

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Find the range of values of x which satisfies

$$-2\frac{2}{3} \leq x + \frac{1}{3} < 3\frac{1}{3}; x \in \mathbb{R}.$$

Graph these values of x on the number line.

Solution:

$$-2\frac{2}{3} \leq x + \frac{1}{3} \text{ and } x + \frac{1}{3} < 3\frac{1}{3}$$

$$\Rightarrow -\frac{8}{3} \leq x + \frac{1}{3} \text{ and } x + \frac{1}{3} < \frac{10}{3}$$

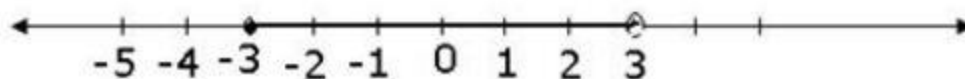
$$\Rightarrow -\frac{8}{3} - \frac{1}{3} \leq x \text{ and } x < \frac{10}{3} - \frac{1}{3}$$

$$\Rightarrow -\frac{9}{3} \leq x \text{ and } x < \frac{9}{3}$$

$$\Rightarrow -3 \leq x \text{ and } x < 3$$

$$\therefore -3 \leq x < 3$$

The required graph of the solution set is:



Question 8.

Find the values of x , which satisfy the inequation:

$$-2 \leq \frac{1}{2} - \frac{2x}{3} < 1\frac{5}{6}; x \in \mathbb{N}.$$

Graph the solution on the number line.

Solution:

$$-2 \leq \frac{1}{2} - \frac{2x}{3} < 1\frac{5}{6}$$

$$-2 \leq \frac{1}{2} - \frac{2x}{3} \quad \text{and} \quad \frac{1}{2} - \frac{2x}{3} < 1\frac{5}{6}$$

$$-\frac{5}{2} \leq -\frac{2x}{3} \quad \text{and} \quad -\frac{2x}{3} < \frac{8}{6}$$

$$\frac{15}{4} \geq x \quad \text{and} \quad x > -2$$

$$3.75 \geq x \quad \text{and} \quad x > -2$$

Since, $x \in \mathbb{N}$

$\therefore$ Solution set = $\{1, 2, 3\}$

The required graph of the solution set is:



Question 9.

Given $x \in \{\text{real numbers}\}$, find the range of values of x for which $-5 \leq 2x - 3 < x + 2$ and represent it on a number line.

Solution:

$$-5 \leq 2x - 3 < x + 2$$

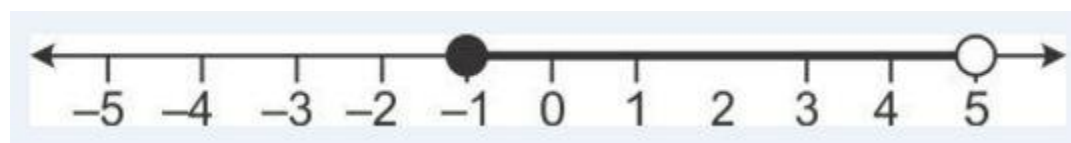
$$-5 \leq 2x - 3 \quad \text{and} \quad 2x - 3 < x + 2$$

$$-2 \leq 2x \quad \text{and} \quad x < 5$$

$$-1 \leq x \quad \text{and} \quad x < 5$$

Required range is $-1 \leq x < 5$.

The required graph is:



Question 10.

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If $5x - 3 \leq 5 + 3x \leq 4x + 2$, express it as $a \leq x \leq b$ and then state the values of a and b .

Solution:

$$5x - 3 \leq 5 + 3x \leq 4x + 2$$

$$5x - 3 \leq 5 + 3x \text{ and } 5 + 3x \leq 4x + 2$$

$$2x \leq 8 \text{ and } -x \leq -3$$

$$x \leq 4 \text{ and } x \geq 3$$

$$\text{Thus, } 3 \leq x \leq 4.$$

$$\text{Hence, } a = 3 \text{ and } b = 4.$$

Question 11.

Solve the following inequation and graph the solution set on the number line:

$$2x - 3 < x + 2 \leq 3x + 5, x \in \mathbb{R}.$$

Solution:

$$2x - 3 < x + 2 \leq 3x + 5$$

$$2x - 3 < x + 2 \text{ and } x + 2 \leq 3x + 5$$

$$x < 5 \text{ and } -3 \leq 2x$$

$$x < 5 \text{ and } -1.5 \leq x$$

$$\text{Solution set} = \{-1.5 \leq x < 5\}$$

The solution set can be graphed on the number line as:



Question 12.

<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

Solve and graph the solution set of:

(i) $2x - 9 < 7$ and $3x + 9 \leq 25$, $x \in \mathbb{R}$ (ii) $2x - 9 \leq 7$ and $3x + 9 > 25$, $x \in \mathbb{I}$

(iii) $x + 5 \geq 4(x - 1)$ and $3 - 2x < -7$, $x \in \mathbb{R}$

Solution:

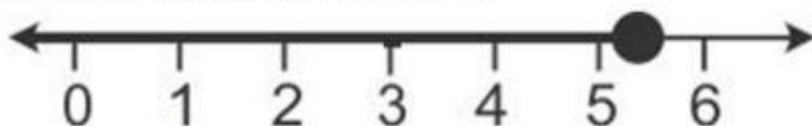
(i) $2x - 9 < 7$ and $3x + 9 \leq 25$

$2x < 16$ and $3x \leq 16$

$x < 8$ and $x \leq 5\frac{1}{3}$

$\therefore$ Solution set = $\{x \leq 5\frac{1}{3}, x \in \mathbb{R}\}$

The required graph on number line is:



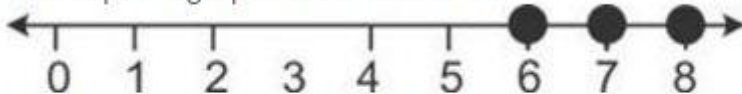
(ii) $2x - 9 \leq 7$ and $3x + 9 > 25$

$2x \leq 16$ and $3x > 16$

$x \leq 8$ and $x > 5\frac{1}{3}$

$\therefore$ Solution set = $\{5\frac{1}{3} < x \leq 8, x \in \mathbb{I}\} = \{6, 7, 8\}$

The required graph on number line is:



(iii) $x + 5 \geq 4(x - 1)$ and $3 - 2x < -7$

$9 \geq 3x$ and $-2x < -10$

$3 \geq x$ and $x > 5$

$\therefore$ Solution set = Empty set

Question 13.

Solve and graph the solution set of:

(i) $3x - 2 > 19$ or $3 - 2x \geq -7$, $x \in \mathbb{R}$

<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

(ii) $5 > p - 1 > 2$ or $7 \leq 2p - 1 \leq 17$, $p \in \mathbb{R}$

Solution:

(i) $3x - 2 > 19$ or $3 - 2x \geq -7$

$3x > 21$ or $-2x \geq -10$

$x > 7$ or $x \leq 5$

Graph of solution set of $x > 7$ or $x \leq 5$ = Graph of points which belong to $x > 7$ or $x \leq 5$ or both.

Thus, the graph of the solution set is:



(ii) $5 > p - 1 > 2$ or $7 \leq 2p - 1 \leq 17$

$6 > p > 3$ or $8 \leq 2p \leq 18$

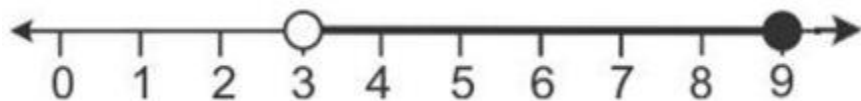
$6 > p > 3$ or $4 \leq p \leq 9$

Graph of solution set of $6 > p > 3$ or $4 \leq p \leq 9$

= Graph of points which belong to $6 > p > 3$ or $4 \leq p \leq 9$ or both

= Graph of points which belong to $3 < p \leq 9$

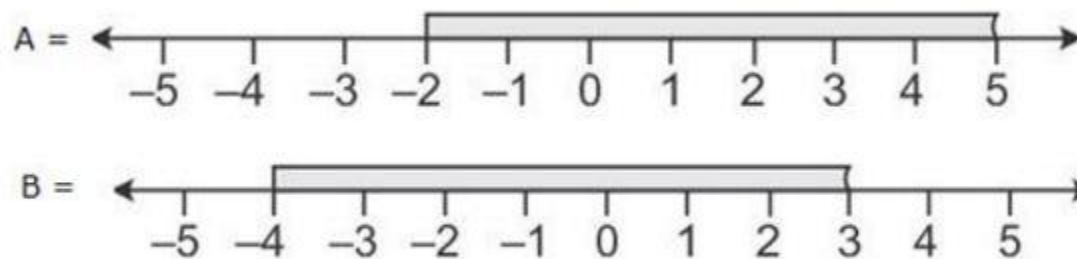
Thus, the graph of the solution set is:



Question 14.

<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-equations-in-one-variable/>

The diagram represents two inequations A and B on real number lines:



(i) Write down A and B in set builder notation.

(ii) Represent $A \cup B$ and $A \cap B'$ on two different number lines.

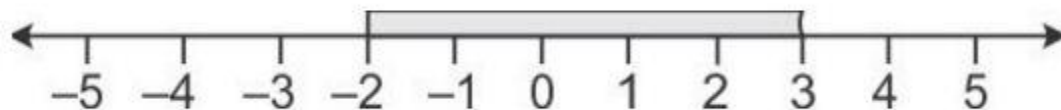
Solution:

(i) $A = \{x \in \mathbb{R} : -2 \leq x < 5\}$

$B = \{x \in \mathbb{R} : -4 \leq x < 3\}$

(ii) $A \cap B = \{x \in \mathbb{R} : -2 \leq x < 3\}$

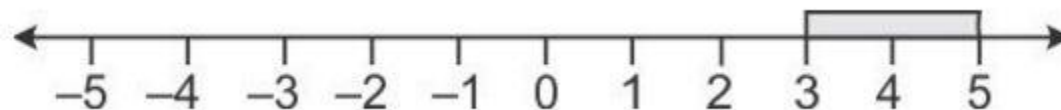
It can be represented on number line as:



$B' = \{x \in \mathbb{R} : 3 < x \leq -4\}$

$A \cap B' = \{x \in \mathbb{R} : 3 \leq x < 5\}$

It can be represented on number line as:



Question 15.

Use real number line to find the range of values of x for which:

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(i) $x > 3$ and $0 < x < 6$

(ii) $x < 0$ and $-3 \leq x < 1$

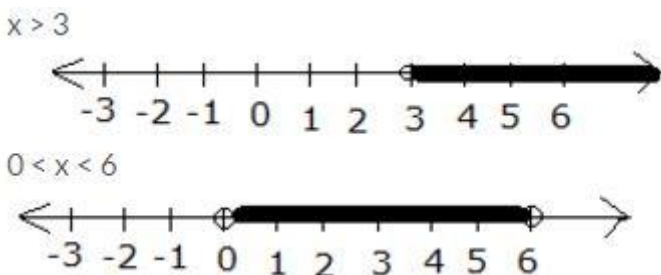
(iii) $-1 < x \leq 6$ and $-2 \leq x \leq 3$

Solution:

(i) $x > 3$ and $0 < x < 6$

Both the given inequations are true in the range where their graphs on the real number lines overlap.

The graphs of the given inequations can be drawn as:



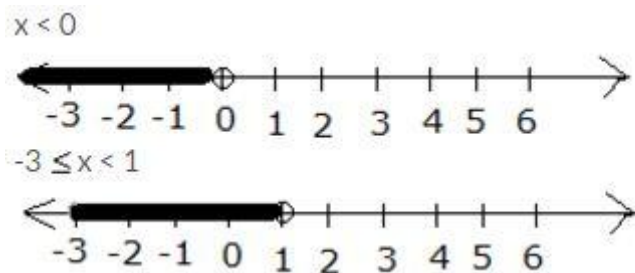
From both graphs, it is clear that their common range is

$3 < x < 6$

(ii) $x < 0$ and $-3 \leq x < 1$

Both the given inequations are true in the range where their graphs on the real number lines overlap.

The graphs of the given inequations can be drawn as:



<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

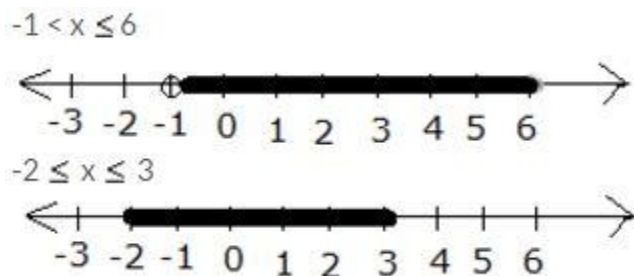
From both graphs, it is clear that their common range is

$$-3 \leq x < 0$$

(iii) $-1 < x \leq 6$ and $-2 \leq x \leq 3$

Both the given inequations are true in the range where their graphs on the real number lines overlap.

The graphs of the given inequations can be drawn as:



From both graphs, it is clear that their common range is

$$-1 < x \leq 3$$

Question 16.

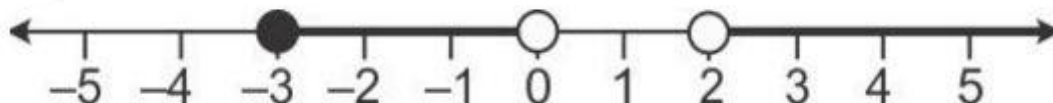
Illustrate the set $\{x: -3 \leq x < 0 \text{ or } x > 2, x \in \mathbb{R}\}$ on the real number line.

Solution:

Graph of solution set of $-3 \leq x < 0$ or $x > 2$

= Graph of points which belong to $-3 \leq x < 0$ or $x > 2$ or both

Thus, the required graph is:



Question 17.

<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

Given $A = \{x: -1 < x \leq 5, x \in \mathbb{R}\}$ and $B = \{x: -4 \leq x < 3, x \in \mathbb{R}\}$

Represent on different number lines:

(i) $A \cap B$

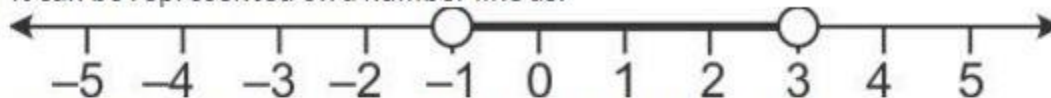
(ii) $A' \cap B$

(iii) $A - B$

Solution:

(i) $A \cap B = \{x: -1 < x < 3, x \in \mathbb{R}\}$

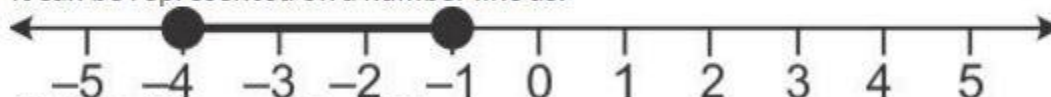
It can be represented on a number line as:



(ii) Numbers which belong to B but do not belong to A = $B - A$

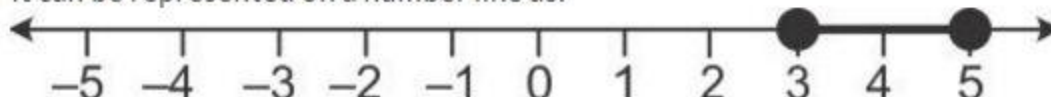
$A' \cap B = \{x: -4 \leq x \leq -1, x \in \mathbb{R}\}$

It can be represented on a number line as:



(iii) $A - B = \{x: 3 \leq x \leq 5, x \in \mathbb{R}\}$

It can be represented on a number line as:



Question 18.

P is the solution set of $7x - 2 > 4x + 1$ and Q is the solution set of $9x - 45 \geq 5(x - 5)$; where $x \in \mathbb{R}$. Represent:

(i) $P \cap Q$

(ii) $P - Q$

(iii) $P \cap Q'$

on different number lines.

Solution:

<https://www.indcareer.com/schools/selina-class-10-icse-solutions-mathematics-chapter-4-linear-inequations-in-one-variable/>

$$P = \{x : 7x - 2 > 4x + 1, x \in \mathbb{R}\}$$

$$7x - 2 > 4x + 1$$

$$7x - 4x > 1 + 2$$

$$3x > 3$$

$$x > 1$$

and

$$Q = \{x : 9x - 45 \geq 5(x - 5), x \in \mathbb{R}\}$$

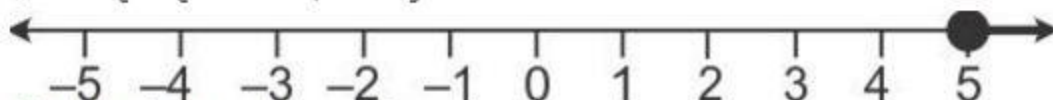
$$9x - 45 \geq 5x - 25$$

$$9x - 5x \geq -25 + 45$$

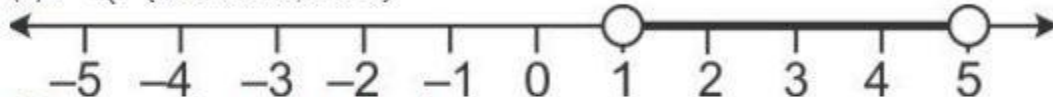
$$4x \geq 20$$

$$x \geq 5$$

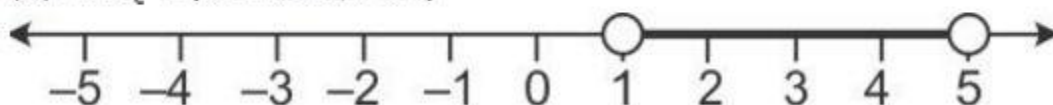
$$(i) P \cap Q = \{x : x \geq 5, x \in \mathbb{R}\}$$



$$(ii) P - Q = \{x : 1 < x < 5, x \in \mathbb{R}\}$$



$$(iii) P \cap Q' = \{x : 1 < x < 5, x \in \mathbb{R}\}$$



Question 19.

Find the range of values of x , which satisfy:

$$-\frac{1}{3} \leq \frac{x}{2} + 1\frac{2}{3} < 5\frac{1}{6}$$

Graph, in each of the following cases, the values of x on the different real number lines:

(i) $x \in \mathbb{W}$ (ii) $x \in \mathbb{Z}$ (iii) $x \in \mathbb{R}$

Solution:

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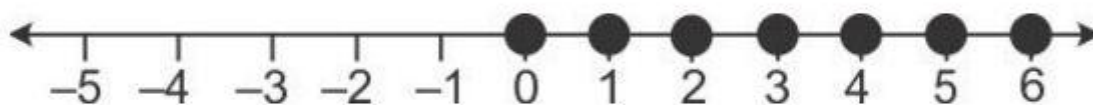
$$-\frac{1}{3} \leq \frac{x}{2} + 1\frac{2}{3} < 5\frac{1}{6}$$

$$-\frac{1}{3} - \frac{5}{3} \leq \frac{x}{2} < \frac{31}{6} - \frac{5}{3}$$

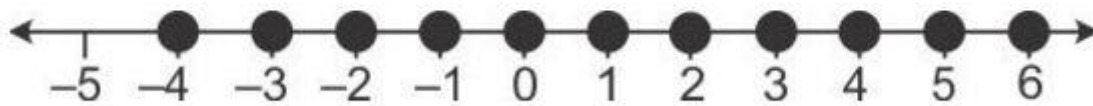
$$-\frac{6}{3} \leq \frac{x}{2} < \frac{21}{6}$$

$$-4 \leq x < 7$$

(i) If $x \in W$, range of values of x is $\{0, 1, 2, 3, 4, 5, 6\}$.



(ii) If $x \in Z$, range of values of x is $\{-4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$.



(iii) If $x \in R$, range of values of x is $-4 \leq x < 7$.



Question 20.

Given: $A = \{x: -8 < 5x + 2 \leq 17, x \in I\}$, $B = \{x: -2 \leq 7 + 3x < 17, x \in R\}$

Where $R = \{\text{real numbers}\}$ and $I = \{\text{integers}\}$. Represent A and B on two different number lines. Write down the elements of $A \cap B$.

Solution:

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$$A = \{x: -8 < 5x + 2 \leq 17, x \in I\}$$

$$= \{x: -10 < 5x \leq 15, x \in I\}$$

$$= \{x: -2 < x \leq 3, x \in I\}$$

It can be represented on number line as:

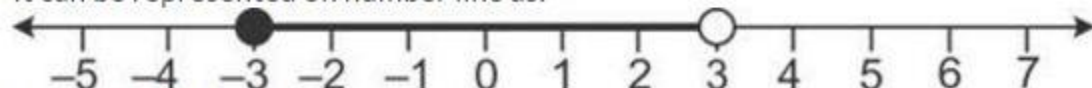


$$B = \{x: -2 \leq 7 + 3x < 17, x \in R\}$$

$$= \{x: -9 \leq 3x < 10, x \in R\}$$

$$= \{x: -3 \leq x < 3.33, x \in R\}$$

It can be represented on number line as:



$$A \cap B = \{-1, 0, 1, 2, 3\}$$

Question 21.

Solve the following inequation and represent the solution set on the number line $2x - 5 \leq 5x + 4 < 11$, where $x \in I$

Solution:

$$2x - 5 \leq 5x + 4 \text{ and } 5x + 4 < 11$$

$$2x - 5x \leq 4 - 5 \text{ and } 5x < 11 - 4$$

$$3x \leq -1 \text{ and } 5x < 7$$

$$x \geq -1 \text{ and } x < \frac{7}{5}$$

$$x \geq -1 \text{ and } x < 1.4$$

Since $x \in I$, the solution set is $\{-3, -2, -1, 0, 1\}$

And the number line representation is



Question 22.

Given that $x \in I$, solve the inequation and graph the solution on the number line:

$$3 \geq \frac{x-4}{2} + \frac{x}{3} \geq 2$$

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Solution:

$$3 \geq \frac{x-4}{2} + \frac{x}{3} \geq 2$$

$$3 \geq \frac{3x-12+2x}{6} \geq 2$$

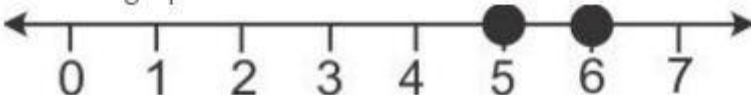
$$18 \geq 5x - 12 \geq 12$$

$$30 \geq 5x \geq 24$$

$$6 \geq x \geq 4.8$$

Solution set = {5, 6}

It can be graphed on number line as:



Question 23.

Given:

$$A = \{x: 11x - 5 > 7x + 3, x \in \mathbb{R}\} \text{ and}$$

$$B = \{x: 18x - 9 \geq 15 + 12x, x \in \mathbb{R}\}.$$

Find the range of set $A \cap B$ and represent it on number line.

Solution:

$$A = \{x: 11x - 5 > 7x + 3, x \in \mathbb{R}\}$$

$$= \{x: 4x > 8, x \in \mathbb{R}\}$$

$$= \{x: x > 2, x \in \mathbb{R}\}$$

$$B = \{x: 18x - 9 \geq 15 + 12x, x \in \mathbb{R}\}$$

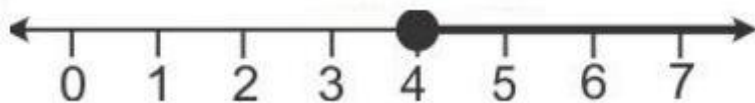
$$= \{x: 6x \geq 24, x \in \mathbb{R}\}$$

$$= \{x: x \geq 4, x \in \mathbb{R}\}$$

$$A \cap B = \{x: x \geq 4, x \in \mathbb{R}\}$$

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It can be represented on number line as:



Question 24.

Find the set of values of x , satisfying:

$$7x + 3 \geq 3x - 5 \text{ and } \frac{x}{4} - 5 \leq \frac{5}{4} - x, \text{ where } x \in \mathbb{N}.$$

Solution:

$$7x + 3 \geq 3x - 5$$

$$4x \geq -8$$

$$x \geq -2$$

$$\frac{x}{4} - 5 \leq \frac{5}{4} - x$$

$$\frac{x}{4} + x \leq \frac{5}{4} + 5$$

$$\frac{5x}{4} \leq \frac{25}{4}$$

$$x \leq 5$$

Since, $x \in \mathbb{N}$

$\therefore$ Solution set = $\{1, 2, 3, 4, 5\}$

Question 25.

Solve:

(i) $\frac{x}{2} + 5 \leq \frac{x}{3} + 6$, where x is a positive odd integer.

(ii) $\frac{2x + 3}{3} \geq \frac{3x - 1}{4}$, where x is a positive even integer.

Solution:

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$$(i) \frac{x}{2} + 5 \leq \frac{x}{3} + 6$$

$$\frac{x}{2} - \frac{x}{3} \leq 6 - 5$$

$$\frac{x}{6} \leq 1$$

$$x \leq 6$$

Since, x is a positive odd integer

$\therefore$ Solution set = {1, 3, 5}

$$(ii) \frac{2x + 3}{3} \geq \frac{3x - 1}{4}$$

$$8x + 12 \geq 9x - 3$$

$$-x \geq -15$$

$$x \leq 15$$

Since, x is a positive even integer

$\therefore$ Solution set = {2, 4, 6, 8, 10, 12, 14}

Question 26.

Solve the inequation:

$$-2\frac{1}{2} + 2x \leq \frac{4x}{5} \leq \frac{4}{3} + 2x, x \in \mathbb{W}. \text{ Graph the solution set on the number line.}$$

Solution:

$$-2\frac{1}{2} + 2x \leq \frac{4x}{5} \leq \frac{4}{3} + 2x$$

$$-2\frac{1}{2} \leq \frac{4x}{5} - 2x \leq \frac{4}{3}$$

$$-\frac{5}{2} \leq -\frac{6x}{5} \leq \frac{4}{3}$$

$$\frac{25}{12} \geq x \geq -\frac{10}{9}$$

$$2.083 \geq x \geq -1.111$$

Since, $x \in W$

$\therefore$ Solution set = $\{0, 1, 2\}$

The solution set can be represented on number line as:



Question 27.

Find three consecutive largest positive integers such that the sum of one-third of first, one-fourth of second and one-fifth of third is at most 20.

Solution:

Let the required integers be x , $x + 1$ and $x + 2$.

According to the given statement,

$$\frac{1}{3}x + \frac{1}{4}(x + 1) + \frac{1}{5}(x + 2) \leq 20$$

$$\frac{20x + 15x + 15 + 12x + 24}{60} \leq 20$$

$$47x + 39 \leq 1200$$

$$47x \leq 1161$$

$$x \leq 24.702$$

Thus, the largest value of the positive integer x is 24.

Hence, the required integers are 24, 25 and 26.

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Question 28.

Solve the given inequation and graph the solution on the number line.

$$2y - 3 < y + 1 \leq 4y + 7, y \in \mathbb{R}$$

Solution:

$$2y - 3 < y + 1 \leq 4y + 7, y \in \mathbb{R}$$

$$\Rightarrow 2y - 3 - y < y + 1 - y \leq 4y + 7 - y$$

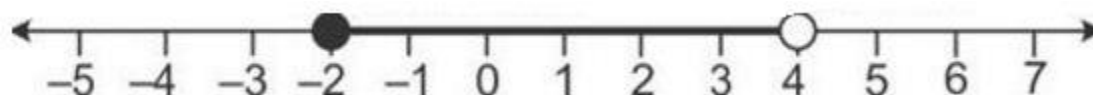
$$\Rightarrow y - 3 < 1 \leq 3y + 7$$

$$\Rightarrow y - 3 < 1 \text{ and } 1 \leq 3y + 7$$

$$\Rightarrow y < 4 \text{ and } 3y \geq 6 \Rightarrow y \geq -2$$

$$\Rightarrow -2 \leq y < 4$$

The graph of the given equation can be represented on a number line as:

**Question 29.**

Solve the inequation:

$$3z - 5 \leq z + 3 < 5z - 9, z \in \mathbb{R}.$$

Graph the solution set on the number line.

Solution:

$$3z - 5 \leq z + 3 < 5z - 9$$

$$3z - 5 \leq z + 3 \text{ and } z + 3 < 5z - 9$$

$$2z \leq 8 \text{ and } 12 < 4z$$

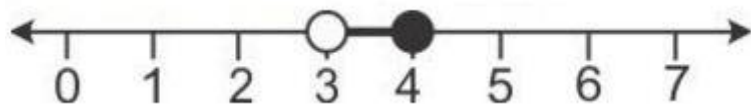
$$z \leq 4 \text{ and } 3 < z$$

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Since, $z \in \mathbb{R}$

$\therefore$ Solution set = $\{3 < z \leq 4, z \in \mathbb{R}\}$

It can be represented on a number line as:



Question 30.

Solve the following inequation and represent the solution set on the number line.

$$-3 < -\frac{1}{2} - \frac{2x}{3} \leq \frac{5}{6}, x \in \mathbb{R}$$

Solution:

$$-3 < -\frac{1}{2} - \frac{2x}{3} \leq \frac{5}{6}$$

Multiply by 6, we get

$$\Rightarrow -18 < -3 - 4x \leq 5$$

$$\Rightarrow -15 < -4x \leq 8$$

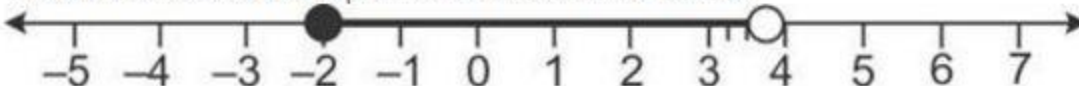
Dividing by -4 , we get

$$\Rightarrow \frac{-15}{-4} > x \geq \frac{8}{-4}$$

$$\Rightarrow -2 \leq x < \frac{15}{4}$$

$$\Rightarrow x \in \left[-2, \frac{15}{4}\right)$$

The solution set can be represented on a number line as:



Question 31.

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Solve the following inequation and represent the solution set on the number line:

$$4x - 19 < \frac{3x}{5} - 2 \leq \frac{-2}{5} + x, x \in \mathbb{R}$$

Solution:

Consider the given inequation:

$$4x - 19 < \frac{3x}{5} - 2 \leq \frac{-2}{5} + x, x \in \mathbb{R}$$

$$\Rightarrow 4x - 19 + 2 < \frac{3x}{5} - 2 + 2 \leq \frac{-2}{5} + x + 2, x \in \mathbb{R}$$

$$\Rightarrow 4x - 17 < \frac{3x}{5} \leq x + \frac{8}{5}, x \in \mathbb{R}$$

$$\Rightarrow 4x - \frac{3x}{5} < 17 \text{ and } \frac{-8}{5} \leq x - \frac{3x}{5}, x \in \mathbb{R}$$

$$\Rightarrow \frac{20x - 3x}{5} < 17 \text{ and } \frac{-8}{5} \leq \frac{5x - 3x}{5}, x \in \mathbb{R}$$

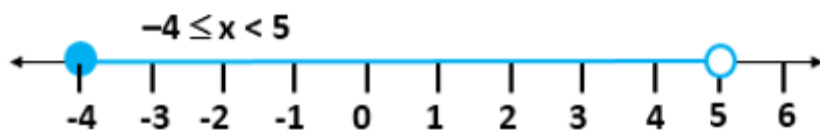
$$\Rightarrow \frac{17x}{5} < 17 \text{ and } \frac{-8}{5} \leq \frac{2x}{5}, x \in \mathbb{R}$$

$$\Rightarrow \frac{x}{5} < 1 \text{ and } -4 \leq x, x \in \mathbb{R}$$

$$\Rightarrow x < 5 \text{ and } -4 \leq x, x \in \mathbb{R}$$

$$\Rightarrow -4 \leq x < 5; \text{ where } x \in \mathbb{R}$$

The solution set can be represented on a number line as follows:



Question 32.

Solve the following inequation, write the solution set and represent it on the number line:

$$-\frac{x}{3} \leq \frac{x}{2} - 1\frac{1}{3} < \frac{1}{6}, x \in \mathbb{R}$$

Solution:

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The given inequation is

$$-\frac{x}{3} \leq \frac{x}{2} - 1 \frac{1}{3} < \frac{1}{6}, x \in \mathbb{R}$$

$$\Rightarrow -\frac{x}{3} \leq \frac{x}{2} - \frac{4}{3} < \frac{1}{6}$$

Now,

$$-\frac{x}{3} \leq \frac{x}{2} - \frac{4}{3}$$

$$\Rightarrow -\frac{x}{3} - \frac{x}{2} \leq -\frac{4}{3}$$

$$\Rightarrow \frac{2x + 3x}{6} \geq \frac{4}{3}$$

$$\Rightarrow \frac{5x}{6} \geq \frac{4}{3}$$

$$\Rightarrow 5x \geq 8$$

$$\Rightarrow x \geq \frac{8}{5}$$

$$\Rightarrow x \geq 1.6$$

$$\frac{x}{2} - \frac{4}{3} < \frac{1}{6}$$

$$\Rightarrow \frac{x}{2} < \frac{1}{6} + \frac{4}{3}$$

$$\Rightarrow \frac{x}{2} < \frac{1 + 4 \times 2}{6}$$

$$\Rightarrow \frac{x}{2} < \frac{1 + 8}{6}$$

$$\Rightarrow \frac{x}{2} < \frac{9}{6}$$

$$\Rightarrow \frac{x}{2} < \frac{3}{2}$$

$$\Rightarrow x < 3$$

$\therefore$ Solution set = $\{x : 1.6 \leq x < 3\}$

It can be represented on a number line as follows :



Question 33.

Find the values of x , which satisfy the inequation

$$-2 \frac{5}{6} < \frac{1}{2} - \frac{2x}{3} \leq 2, x \in \mathbb{W},$$

Graph the solution set on the number line.

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Solution:

We need to find the values of x , such that

x satisfies the inequation $-2\frac{5}{6} < \frac{1}{2} - \frac{2x}{3} \leq 2, x \in W$

Consider the given inequation:

$$-2\frac{5}{6} < \frac{1}{2} - \frac{2x}{3} \leq 2$$

$$\Rightarrow \frac{-17}{6} < \frac{3-4x}{6} \leq \frac{12}{6}$$

$$\Rightarrow \frac{17}{6} > \frac{4x-3}{6} \geq \frac{-12}{6}$$

$$\Rightarrow 17 > 4x - 3 \geq -12$$

$$\Rightarrow -12 \leq 4x - 3 < 17$$

$$\Rightarrow -12 + 3 \leq 4x - 3 + 3 < 17 + 3$$

$$\Rightarrow -9 \leq 4x < 20$$

$$\Rightarrow -\frac{9}{4} \leq \frac{4x}{4} < \frac{20}{4}$$

$$\Rightarrow -\frac{9}{4} \leq x < 5$$

Since $x \in W$, the values of x are 0, 1, 2, 3, 4.

And the required line is

**Question 34.**

Solve the following in equation and write the solution set:

$$13x - 5 < 15x + 4 < 7x + 12, x \in R$$

Solution:

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$$13x - 5 < 15x + 4 < 7x + 12, x \in \mathbb{R}$$

We have

$$13x - 5 < 15x + 4 \quad \text{and} \quad 15x + 4 < 7x + 12$$

$$\Rightarrow 13x < 15x + 9 \quad \Rightarrow 15x < 7x + 8$$

$$\Rightarrow 0 < 2x + 9 \quad \Rightarrow 8x < 8$$

$$\Rightarrow -9 < 2x \quad \Rightarrow x < 1$$

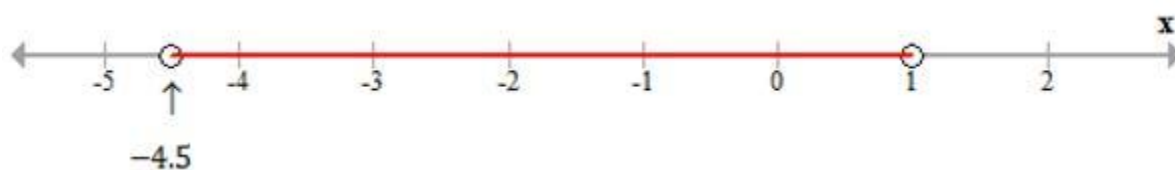
$$\Rightarrow -\frac{9}{2} < x \quad \Rightarrow x < 1$$

$$\therefore -\frac{9}{2} < x < 1$$

$$\text{i.e. } -4.5 < x < 1$$

$$\therefore \text{Solution set} = \{x : x \in \mathbb{R} \text{ and } -4.5 < x < 1\}$$

The required line is



Question 35.

Solve the following inequation, write the solution set and represent it on the number line.

$$-3(x - 7) \geq 15 - 7x > x + 1/3, x \in \mathbb{R}.$$

Solution:

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$$-3(x - 7) \geq 15 - 7x > \frac{x+1}{3}, x \in \mathbb{R}$$

$$\Rightarrow -3(x - 7) \geq 15 - 7x \text{ and } 15 - 7x > \frac{x+1}{3}$$

$$\Rightarrow -3x + 21 \geq 15 - 7x \text{ and } 45 - 21x > x + 1$$

$$\Rightarrow -3x + 7x \geq 15 - 21 \text{ and } 45 - 1 > x + 21x$$

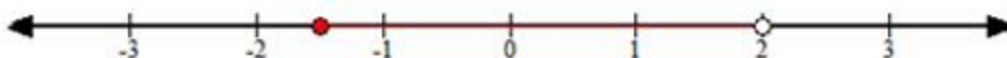
$$\Rightarrow 4x \geq -6 \text{ and } 44 > 22x$$

$$\Rightarrow x \geq \frac{-3}{2} \text{ and } 2 > x$$

$$\Rightarrow x \geq -1.5 \text{ and } 2 > x$$

$\therefore$ The solution set is $\{x : x \in \mathbb{R}, -1.5 \leq x < 2\}$.

The solution set is represented on number line as follows:



Question 36.

Solve the following inequation and represent the solution set on a number line.

$$-8\frac{1}{2} < -\frac{1}{2} - 4x \leq 7\frac{1}{2}, x \in \mathbb{I}$$

Solution:

$$-8\frac{1}{2} < -\frac{1}{2} - 4x \leq 7\frac{1}{2}, \quad x \in \mathbb{I}$$

$$-8\frac{1}{2} < -\frac{1}{2} - 4x$$

$$\Rightarrow \frac{-15}{2} < -\frac{1}{2} - 4x$$

$$\Rightarrow \frac{-15}{2} + \frac{1}{2} < -4x$$

$$\Rightarrow \frac{-14}{2} < -4x$$

$$\Rightarrow -7 < -4x$$

$$\Rightarrow 7 > 4x$$

$$\Rightarrow x < \frac{7}{4}$$

$$-\frac{1}{2} - 4x \leq 7\frac{1}{2}$$

$$\Rightarrow -\frac{1}{2} - 4x \leq \frac{15}{2}$$

$$\Rightarrow -4x \leq \frac{15}{2} + \frac{1}{2}$$

$$\Rightarrow -4x \leq 8$$

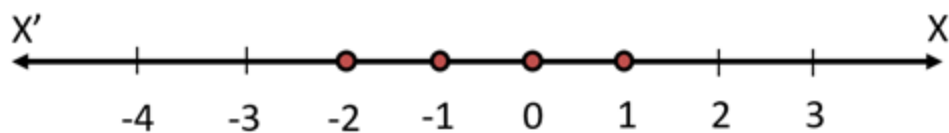
$$\Rightarrow x \geq -2$$

So,

$$\frac{7}{4} > x \geq -2$$

As, $x \in \mathbb{I}$

$$x = \{-2, -1, 0, 1\}$$





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