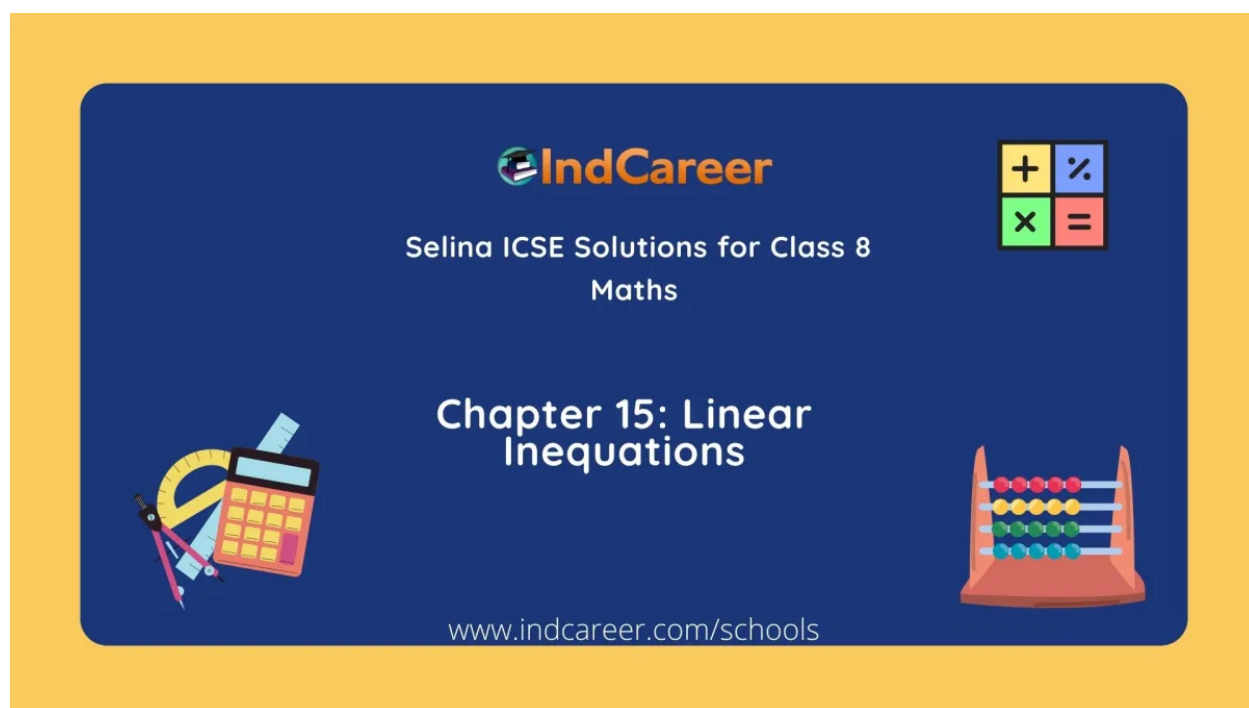


Selina Class 8 ICSE Solutions Mathematics :

Chapter 15- Linear Inequations



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Selina Class 8 ICSE Solutions Mathematics :

Chapter 15- Linear Inequations

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Selina Class 8 ICSE Solutions Mathematics : Chapter 15- Linear Inequations

Selina 8th Maths Chapter 15, Class 8 Maths Chapter 15 solutions

Exercise 15A

Question 1.

If the replacement set is the set of natural numbers, solve.

(i) $x - 5 < 0$

(ii) $x + 1 < 7$

(iii) $3x - 4 > 6$

(iv) $4x + 1 > 17$

Solution:

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(i) $x - 5 < 0$

$$x - 5 + 5 < 0 + 5 \text{(Adding 5)}$$

$$\Rightarrow x < 5$$

Required answer = $\{1, 2, 3, 4\}$

(ii) $x + 1 \leq 7 \Rightarrow x + 1 - 1 \leq 7 - 1$ (Subtracting 1)

$$\Rightarrow x \leq 6$$

Required answer = $\{1, 2, 3, 4, 5, 6\}$

(iii) $3x - 4 > 6$

$$3x - 4 + 4 > 6 + 4 \text{ (Adding 4)}$$

$$\Rightarrow 3x > 10$$

$$\frac{3x}{3} > \frac{10}{3} \text{ ... (Dividing by 3)}$$

$$\Rightarrow x > \frac{10}{3}$$

$$\Rightarrow x > 3\frac{1}{3}$$

Required answer = $\{4, 5, 6, \dots\}$

(iv) $4x + 1 \geq 17$

$$\Rightarrow 4x + 1 - 1 \geq 17 - 1 \text{ (Subtracting)}$$

$$\Rightarrow 4x \geq 16$$

$$\Rightarrow \frac{4x}{4} \geq \frac{16}{4} \text{ (Dividing by 4)}$$

$$\Rightarrow x \geq 4$$

Required answer = $\{4, 5, 6, \dots\}$

Question 2.

If the replacement set = $\{-6, -3, 0, 3, 6, 9\}$; find the truth set of the following:

(i) $2x - 1 > 9$

(ii) $3x + 7 < 1$

Solution:

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(i) $2x - 1 > 9$

$$\Rightarrow 2x - 1 + 1 > 9 + 1 \text{ (Adding 1)}$$

$$\Rightarrow 2x > 10$$

$$\Rightarrow x > 5 \text{ (Dividing by 2)}$$

$$\Rightarrow x > 5$$

Required answer = $\{6, 9\}$

(ii) $3x + 7 \leq 1$

$$\Rightarrow 3x + 7 - 7 \leq 1 - 7 \text{ (Subtracting 7)}$$

$$\Rightarrow 3x \leq -6$$

$$\Rightarrow x \leq -2$$

Required Answer = $\{-6, -3\}$

Question 3.

Solve $7 > 3x - 8$; $x \in \mathbb{N}$

Solution:

$$7 > 3x - 8$$

$$\Rightarrow 7 - 3x > 3x - 3x - 8 \text{ (Subtracting } 3x)$$

$$\Rightarrow 7 - 7 - 3x > 3x - 3x - 8 - 7 \text{ (Subtracting 7)}$$

$$\Rightarrow -3x > -15$$

$$\Rightarrow x < 5 \text{ (Dividing by } -3)$$

Required Answer = $\{1, 2, 3, 4\}$

Note : Division by negative number reverses the inequality.

Question 4.

$-17 < 9y - 8$; $y \in \mathbb{Z}$

Solution:

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$$-17 < 9y - 8$$

$$\Rightarrow -17 + 8 < 9y - 8 + 8 \text{ (Adding 8)}$$

$$\Rightarrow -9 < 9y$$

$$\Rightarrow -1 < y \text{ (Dividing by 9)}$$

Required number = $\{0, 1, 2, 3, 4, \dots\}$

Question 5.

Solve $9x - 7 \leq 28 + 4x$; $x \in W$

Solution:

$$9x - 7 \leq 28 + 4x$$

$$\Rightarrow 9x - 4x - 7 \leq 28 + 4x - 4x \text{ (Subtracting 4x)}$$

$$\Rightarrow 5x - 7 \leq 28$$

$$\Rightarrow 5x - 7 + 7 \leq 28 + 7 \text{ (Adding 7)}$$

$$\Rightarrow 5x \leq 35$$

$$\Rightarrow x \leq 7 \text{ (Dividing by 5)}$$

Required answer = $\{0, 1, 2, 3, 4, 5, 6, 7\}$

Question 6.

Solve : $\left(\frac{2}{3}\right)x + 8 < 12$; $x \in W$

Solution:

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$$\begin{aligned}\frac{2}{3}x + 8 &< 12 \\ \Rightarrow \frac{2}{3}x + 8 - 8 &< 12 - 8 \\ \Rightarrow \frac{2}{3}x &< 4 \\ \Rightarrow \frac{2}{3}x \times \frac{3}{2} &< 4 \times \frac{3}{2} \quad \text{(Multiplying by } \frac{3}{2} \text{)} \\ \Rightarrow x &< 6 \\ \therefore \text{Required answer} &= \{0, 1, 2, 3, 4, 5\}\end{aligned}$$

Question 7.

Solve $-5(x + 4) > 30$; $x \in \mathbb{Z}$

Solution:

$$\begin{aligned}-5(x+4) &> 30 \\ \Rightarrow \frac{-5(x+4)}{-5} &< \frac{30}{-5} \quad \dots(\text{Dividing by } -5)\end{aligned}$$

Note : Division by a negative number reverses the equality

$$\begin{aligned}\Rightarrow x + 4 &< -6 \\ \Rightarrow x + 4 - 4 &< -6 - 4 \quad \text{(Subtracting 4)} \\ \Rightarrow x &< -10 \\ \therefore \text{Required Answer} &= \{-11, -12, -13, \dots\}\end{aligned}$$

Question 8.

Solve the ineqn $8 - 2x > x - 5$; $x \in \mathbb{N}$.

Solution:

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$$8 - 2x \geq x - 5; x \in \mathbb{N}$$

$$\Rightarrow 8 + 5 \geq 2x + x$$

$$\Rightarrow 13 \geq 3x \Rightarrow 3x \leq 13$$

$$\Rightarrow x \leq \frac{13}{3} = 4\frac{1}{3}$$

$$x = 1, 2, 3, 4 (x \in \mathbb{N})$$

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

Question 9.

Solve the inequality $18 - 3(2x - 5) > 12; x \in \mathbb{W}$.

Solution:

$$18 - 3(2x - 5) > 12; x \in \mathbb{W}$$

$$\Rightarrow 18 - 6x + 15 > 12 \Rightarrow 33 - 12 > 6x$$

$$\Rightarrow 21 > 6x$$

$$\Rightarrow 6x < 21 \Rightarrow x < \frac{21}{6} = \frac{7}{2} = 3\frac{1}{2}$$

$$\text{But } x \in \mathbb{W}, x = 0, 1, 2, 3$$

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

Question 10.

Solve : $\frac{2x+1}{3} + 15 < 17; x \in \mathbb{W}$.

Solution:

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$$\frac{2x+1}{3} + 15 \leq 17; x \in W$$

$$\Rightarrow \frac{2x+1}{3} \leq 17 - 15 = 2$$

$$\Rightarrow 2x + 1 \leq 6 \Rightarrow 2x \leq 5$$

$$\Rightarrow x \leq \frac{5}{2} = 2\frac{1}{2}$$

But $x \in W$

$$\therefore x = 0, 1, 2$$

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

Question 11.

$$\text{Solve : } -3 + x < 2, x \in N$$

Solution:

$$-3 + x < 2, x \in N$$

$$\Rightarrow x < 2 - (-3)$$

$$\Rightarrow x < 2 + 3$$

$$\Rightarrow x < 5$$

$$\therefore x = 1, 2, 3, 4 \quad (\because x \in N)$$

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

Question 12.

$$\text{Solve : } 4x - 5 > 10 - x, x \in \{0, 1, 2, 3, 4, 5, 6, 7\}$$

Solution:

$$4x - 5 > 10 - x, x \in \mathbb{N}$$

$$\Rightarrow 4x + x > 10 + 5$$

$$\Rightarrow 5x > 15$$

$$\Rightarrow x > \frac{15}{5} = 3$$

$$\therefore x = 4, 5, 6, 7$$

Solution set = $\{4, 5, 6, 7\}$

Question 13.

Solve : $15 - 2(2x - 1) < 15, x \in \mathbb{Z}$.

Solution:

$$15 - 2(2x - 1) < 15, x \in \mathbb{Z}$$

$$\Rightarrow 15 - 4x + 2 < 15$$

$$\Rightarrow 17 - 4x < 15$$

$$\Rightarrow -4x < 15 - 17$$

$$\Rightarrow -4x < -2$$

$$\Rightarrow \frac{-4}{-4}x > \frac{-2}{-4} = \frac{1}{2} \quad (\text{Dividing by } -4)$$

$$\therefore x = 1, 2, 3, 4, 5, \dots$$

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

Question 14.

Solve : $\frac{2x+3}{5} > \frac{4x-1}{2}, x \in \mathbb{W}$.

Solution:

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$$\frac{2x+3}{5} > \frac{4x-1}{2}, x \in W$$

$$\Rightarrow 2(2x+3) > 5(4x-1)$$

$$\Rightarrow 4x+6 > 20x-5$$

$$\Rightarrow 4x-20x > -5-6$$

$$\Rightarrow -16x > -11$$

$$\Rightarrow x < \frac{-11}{-16} \quad (\text{Dividing by } -16)$$

$$\Rightarrow x < \frac{11}{16}$$

$$\therefore x = 0$$

$$\therefore \text{Solution set} = \{0\}$$

Exercise 15B

Solve and graph the solution set on a number line :

Question 1.

$$x - 5 < -2 ; x \in N$$

Solution:

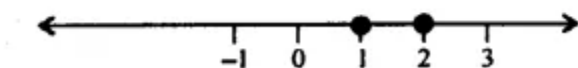
$$x - 5 < -2$$

$$\Rightarrow x - 5 + 5 < -2 + 5$$

(Adding 5 to both sides)

$$\Rightarrow x < 3$$

$\therefore$ The required graph is :



Question 2.

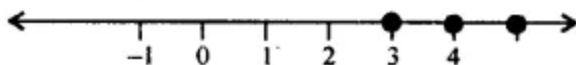
$$3x - 1 > 5 ; x \in W$$

<https://www.indcareer.com/schools/selina-class-8-icse-solutions-mathematics-chapter-15-linear-inequations/>

Solution:

$$\begin{aligned}3x-1 &> 5 \\ \Rightarrow 3x-1+1 &> 5+1 \quad (\text{Adding 1 to both sides}) \\ \Rightarrow 3x &> 6 \\ \Rightarrow \frac{3x}{3} &> \frac{6}{3} \quad (\text{Dividing both sides by 3}) \\ \Rightarrow x &> 2\end{aligned}$$

$\therefore$ The required graph is :



Question 3.

$$-3x + 12 < -15 ; x \in \mathbb{R}.$$

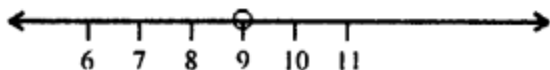
Solution:

$$\begin{aligned}-3x+12 &< -15 \\ \Rightarrow -3x+12-12 &< -15-12 \\ & \quad (\text{Subtracting 12 from both sides}) \\ \Rightarrow -3x &< -27 \\ \Rightarrow \frac{-3x}{-3} &> \frac{-27}{-3} \quad (\text{Dividing both sides by } -3)\end{aligned}$$

Note : Division by a negative number reverses the inequality.

$$\Rightarrow x > 9$$

$\therefore$ The required graph is :



Question 4.

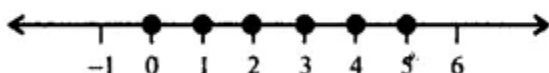
$$7 > 3x - 8 ; x \in \mathbb{W}$$

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Solution:

$$\begin{aligned}7 &\geq 3x-8 \\ \Rightarrow 7+8 &\geq 3x-8+8 \quad (\text{Adding 8 to both sides}) \\ \Rightarrow 15 &\geq 3x \\ \Rightarrow \frac{15}{3} &\geq \frac{3x}{3} \quad (\text{Dividing both sides by 3}) \\ \Rightarrow 5 &\geq x\end{aligned}$$

$\therefore$ The required graph is :



Question 5.

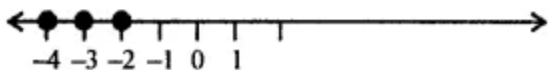
$$8x - 8 < -24 ; x \in \mathbb{Z}$$

Solution:

$$\begin{aligned}8x-8 &\leq -24 \\ \Rightarrow 8x-8+8 &\leq -24+8 \\ &\quad (\text{Adding 8 to both sides}) \\ \Rightarrow 8x &\leq -16 \\ \Rightarrow \frac{8x}{8} &\leq \frac{-16}{8} \quad (\text{Dividing both sides by 8})\end{aligned}$$

$$\Rightarrow x \leq -2$$

$\therefore$ The required graph is :



Question 6.

$$8x - 9 > 35 - 3x ; x \in \mathbb{N}$$

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Solution:

$$8x-9 \geq 35-3x$$

$$\Rightarrow 8x+3x-9 \geq 35-3x+3x$$

(Adding $3x$ to both sides)

$$\Rightarrow 11x-9 \geq 35$$

$$\Rightarrow 11x-9+9 \geq 35+9$$

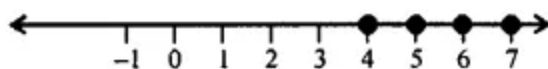
(Adding 9 to both sides)

$$\Rightarrow 11x \geq 44$$

$$\Rightarrow \frac{11x}{11} \geq \frac{44}{11} \quad (\text{Dividing both sides by } 11)$$

$$\Rightarrow x \geq 4$$

$\therefore$ The required graph is :



Question 7.

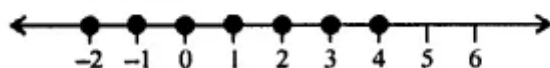
$$5x + 4 > 8x - 11 ; x \in \mathbb{Z}$$

Solution:

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$$\begin{aligned}5x + 4 &> 8x - 11 \\ \Rightarrow 5x - 5x + 4 &> 8x - 5x - 11 \\ &\quad \text{(Subtracting } 5x \text{ from both sides)} \\ \Rightarrow 4 &> 3x - 11 \\ \Rightarrow 4 + 11 &> 3x - 11 + 11 \\ &\quad \text{(Adding 11 to both sides)} \\ \Rightarrow 15 &> 3x \\ \Rightarrow \frac{15}{3} &> \frac{3x}{3} &\quad \text{(Dividing both sides by 3)} \\ \Rightarrow 5 &> x \\ \therefore \text{The required graph is}\end{aligned}$$



Question 8.

$$\left(\frac{2x}{5}\right) + 1 < -3; x \in \mathbb{R}$$

Solution:

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

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

(Subtracting 1 from both sides)

$$\Rightarrow \frac{2x}{5} < -4$$

$$\Rightarrow \frac{2x}{5} \times 5 < -4 \times 5$$

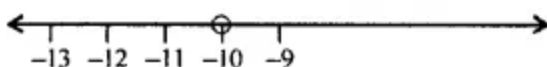
(Multiplying both sides by 5)

$$\Rightarrow 2x < -20$$

$$\Rightarrow \frac{2x}{2} < \frac{-20}{2} \quad (\text{Dividing both sides by 2})$$

$$\Rightarrow x < -10$$

$\therefore$ The required graph is :



Question 9.

$$\frac{x}{2} > -1 + \frac{3x}{4}; x \in \mathbb{N}$$

Solution:

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

$$\Rightarrow \frac{x}{2} \times 4 > -1 \times 4 + \frac{3x}{4} \times 4$$

(Multiplying both sides by 4)

$$\Rightarrow 2x > -4 + 3x$$

$$\Rightarrow 2x - 2x > -4 + 3x - 2x$$

(Subtracting $2x$ from both sides)

$$\Rightarrow 0 > -4 + x$$

$$\Rightarrow 0 + 4 > -4 + 4 + x \quad (\text{Adding 4 to both sides})$$

$$\Rightarrow 4 > x$$

$\therefore$ The required graph is :



Question 10.

$$\left(\frac{2}{3}\right)x + 5 \leq \left(\frac{1}{2}\right)x + 6 ; x \in W$$

Solution:

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

$$\Rightarrow \frac{2}{3}x \times 6 + 5 \times 6 \leq \frac{1}{2}x \times 6 + 6 \times 6$$

(Multiplying both sides by 6)

$$\Rightarrow 4x + 30 \leq 3x + 36$$

$$\Rightarrow 4x - 3x + 30 \leq 3x - 3x + 36$$

(Subtracting $3x$ from both sides)

$$\Rightarrow x + 30 \leq 36$$

$$\Rightarrow x + 30 - 30 \leq 36 - 30$$

(Subtracting 30 from both sides)

$$x \leq 6$$

$\therefore$ The required graph is :



Question 11.

Solve the inequation $5(x - 2) > 4(x + 3) - 24$ and represent its solution on a number line.

Given the replacement set is $\{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$.

Solution:

$$5(x - 2) > 4(x + 3) - 24$$

$$\Rightarrow 5x - 10 > 4x + 12 - 24$$

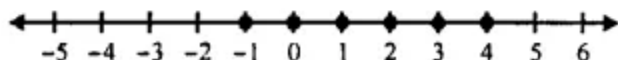
$$\Rightarrow 5x - 4x > 10 - 12$$

$$\Rightarrow x > -2$$

Since replacement set = $\{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$

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

$\therefore$ Solution set on a number line is shown below.



Question 12.

Solve $\frac{2}{3}(x - 1) + 4 < 10$ and represent its solution on a number line.

Given replacement set is $\{-8, -6, -4, 3, 6, 8, 12\}$.

Solution:

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$$\frac{2}{3}(x - 1) + 4 < 10$$

$$\Rightarrow \frac{2}{3}(x - 1) < 10 - 4$$

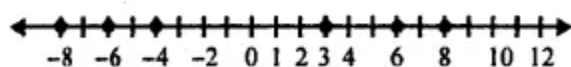
$$\Rightarrow \frac{2}{3}(x - 1) < 6$$

$$\Rightarrow 2(x - 1) < 18$$

$$\Rightarrow x - 1 < 9$$

$$\Rightarrow x - 1 + 1 < 9 + 1 \text{ (Adding 1 to both sides)}$$

$$\Rightarrow x < 10$$



Thus $x < 10$

Since, replacement set = $\{-8, -6, -4, 3, 6, 8, 12\}$

$\Rightarrow$ Solution set = $\{-8, -6, -4, 3, 6, 8\}$

Question 13.

For each inequation, given below, represent the solution on a number line :

(i) $\frac{5}{2} - 2x \geq \frac{1}{2}$; $x \in W$

(ii) $3(2x - 1) \geq 2(2x + 3)$, $x \in Z$

(iii) $2(4 - 3x) \leq 4(x - 5)$, $x \in W$

(iv) $4(3x + 1) > 2(4x - 1)$, x is a negative integer

(v) $\frac{4 - x}{2} < 3$, $x \in R$

(vi) $-2(x + 8) \leq 8$, $x \in R$

Solution:

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$$(i) \frac{5}{2} - 2x \geq \frac{1}{2}, x \in W$$

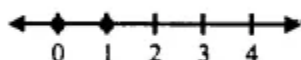
$$\Rightarrow -2x \geq \frac{1}{2} - \frac{5}{2}$$

$$\Rightarrow -2x \geq \frac{-4}{2}$$

$$\Rightarrow -2x > -2$$

$$\Rightarrow x \leq 1$$

$$\therefore x = \{0, 1\}$$



$$(ii) 3(2x - 1) \geq 2(2x + 3), x \in Z$$

$$\Rightarrow 6x - 3 \geq 4x + 6, x \in Z$$

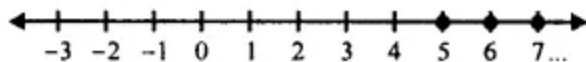
$$\Rightarrow 6x - 4x \geq 6 + 3$$

$$\Rightarrow 2x \geq 9$$

$$\Rightarrow x \geq \frac{9}{2}$$

$$\Rightarrow x \geq 4\frac{1}{2}$$

$$\therefore x = \{5, 6, 7, \dots\}$$



$$(iii) 2(4 - 3x) \leq 4(x - 5), x \in W$$

$$8 - 6x \leq 4x - 20$$

$$\Rightarrow -6x - 4x \leq -20 - 8$$

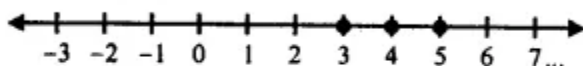
$$\Rightarrow -10x \leq -28$$

$$\Rightarrow 10x \geq 28$$

$$\Rightarrow x \geq \frac{28}{10}$$

$$\Rightarrow x \geq 2.8$$

$$\therefore x = \{3, 4, 5, \dots\}$$



(iv) $4(3x + 1) > 2(4x - 1)$, x is a negative integer

$$\Rightarrow 12x + 4 > 8x - 2$$

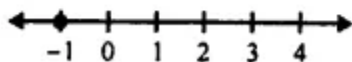
$$\Rightarrow 12x - 8x > -2 - 4$$

$$\Rightarrow 4x > -6$$

$$\Rightarrow x > \frac{-6}{4}$$

$$\Rightarrow x > -1.5$$

$$\therefore x = \{-1\}$$



$$(v) \frac{4-x}{2} < 3, x \in \mathbb{R}$$

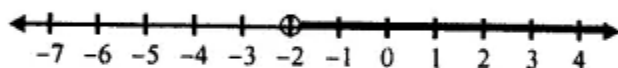
$$\Rightarrow 4-x < 6$$

$$\Rightarrow -x < 6-4$$

$$\Rightarrow -x < 2$$

$$\Rightarrow x > -2$$

$$\therefore x > -2$$



$$(vi) -2(x+8) \leq 8, x \in \mathbb{R}$$

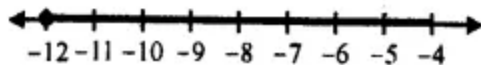
$$-2x - 16 \leq 8$$

$$\Rightarrow -2x \leq 8 + 16$$

$$\Rightarrow -2x \leq 24$$

$$\Rightarrow x \geq \frac{-24}{2}$$

$$x \geq -12$$



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