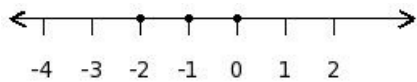




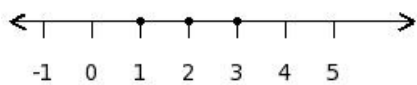
1. Solve the inequation $(-x-4) > 0, x \in \mathbb{Z}$

- (i) $\{-5, -6, -7, -8, -9, \dots\}$ (ii) $\{-4, -5, -6, -7, -8, \dots\}$ (iii) $\{-4, -3, -2, -1, 0, \dots\}$ (iv) $\{-3, -2, -1, 0, 1, \dots\}$

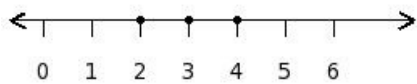
2. Identify the solution for the inequality
 $7 \leq (6x+8) < 21, x \in \mathbb{Z}$



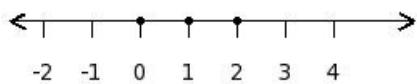
(I)



(II)



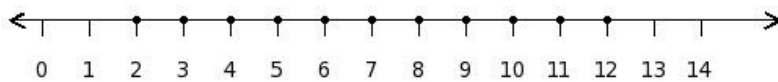
(III)



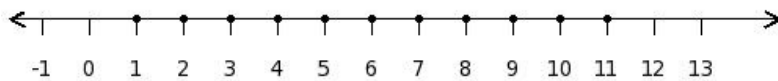
(IV)

- (i) III (ii) IV (iii) I (iv) II

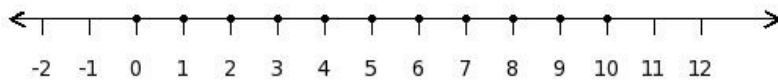
3. Identify the solution for the inequality
 $(-9) < (-x+2) \leq 2, x \in \mathbb{Z}$



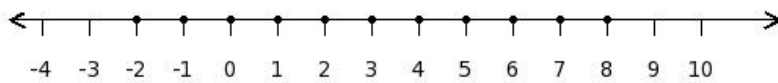
(I)



(II)



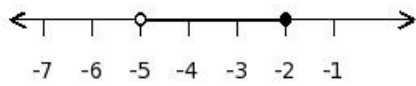
(III)



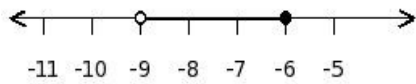
(IV)

- (i) IV (ii) III (iii) II (iv) I

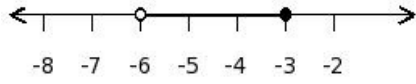
4. Identify the solution for the inequality $19 \leq (-3x+7) < 28, x \in \mathbb{R}$



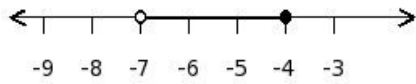
(I)



(II)



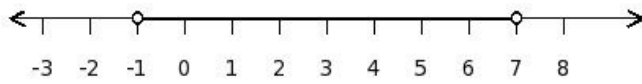
(III)



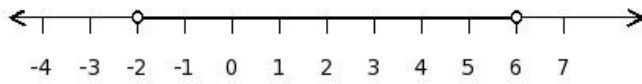
(IV)

(i) I (ii) III (iii) II (iv) IV

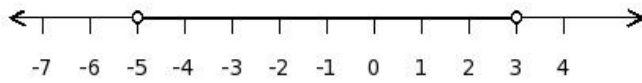
5. Identify the solution for the inequality $(-4) < (-2x+6) < 12, x \in \mathbb{R}$



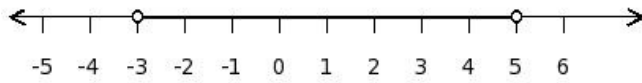
(I)



(II)



(III)



(IV)

(i) II (ii) IV (iii) III (iv) I

6. Find the solution set of given inequality

$(3x-3) \geq 0, x \in \mathbb{Z}$

(i) $\{1, 2, 3, 4, \dots\}$ (ii) $\{0, -1, -2, -3, \dots\}$ (iii) $\{1, 0, -1, -2, \dots\}$ (iv) $\{2, 3, 4, 5, \dots\}$

7. Which of the following inequations is not the same as

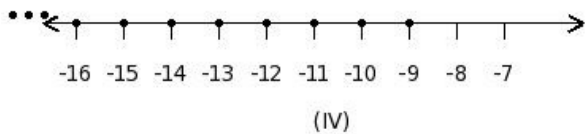
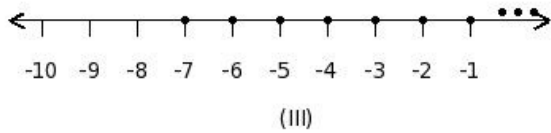
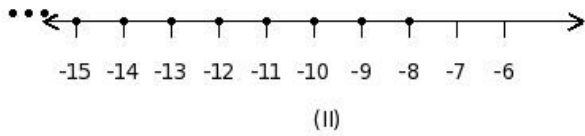
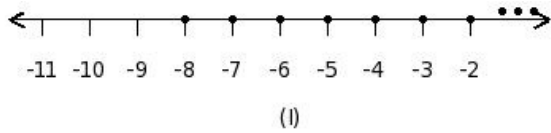
$(-9x+8) < (-4x-5), x \in \mathbb{Z}$

(i) $(-5x+11) < (-8x-8), x \in \mathbb{Z}$ (ii) $(-14x+10) < (-9x-3), x \in \mathbb{Z}$ (iii) $(-6x+1) < (-x-12), x \in \mathbb{Z}$
 (iv) $(-5x+11) < (-2), x \in \mathbb{Z}$ (v) $(-13x+5) < (-8x-8), x \in \mathbb{Z}$

8. The simplified form of the inequality $(-x+2) < (-2x-7), x \in \mathbb{Z}$ is

(i) $x > (-10), x \in \mathbb{Z}$ (ii) $x < (-9), x \in \mathbb{Z}$ (iii) $x \geq (-8), x \in \mathbb{Z}$ (iv) $x < (-10), x \in \mathbb{Z}$ (v) $x \leq (-8), x \in \mathbb{Z}$

9. Which of the following figures represents the solution set $\{-8, -7, -6, -5, -4, -3, \dots\}$



(i) III (ii) I (iii) IV (iv) II

10. Which of the following inequations is the same as $(7x+5) > (-3x+5), x \in \mathbb{Z}$

(i) $(7x+5) > (-5x+7), x \in \mathbb{Z}$ (ii) $(5x+7) > (-5x+7), x \in \mathbb{Z}$ (iii) $(7x+5) < (-5x+7), x \in \mathbb{Z}$
 (iv) $(5x+7) < (-3x+5), x \in \mathbb{Z}$ (v) $(5x+7) > (-3x+5), x \in \mathbb{Z}$

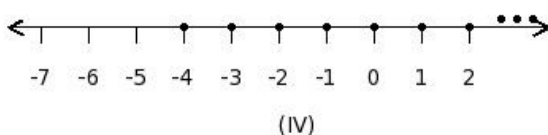
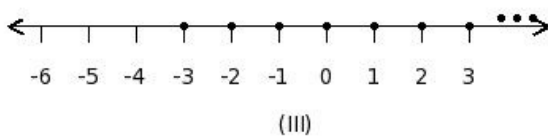
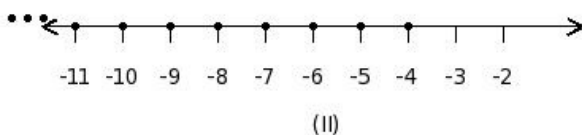
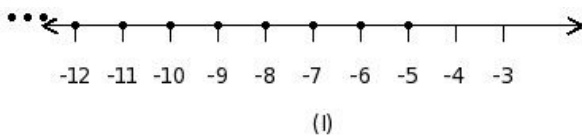
11. Which of the following inequations is the same as $(7x+6) \geq (-8x-8), x \in \mathbb{Z}$

(i) $(7x+6) < (-13x-1), x \in \mathbb{Z}$ (ii) $(7x+6) > (-13x-1), x \in \mathbb{Z}$ (iii) $(2x+13) < (-8x-8), x \in \mathbb{Z}$
 (iv) $(2x+13) > (-8x-8), x \in \mathbb{Z}$ (v) $(2x+13) \geq (-13x-1), x \in \mathbb{Z}$

12. Find the solution set of $9 \leq (6x-8) \leq 23, x \in \mathbb{Z}$

(i) $\{2, 3, 4\}$ (ii) $\{4, 5, 6\}$ (iii) $\{1, 2, 3\}$ (iv) $\{3, 4, 5\}$ (v) $\{5, 6, 7\}$

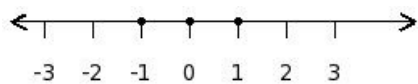
13. Identify the solution for the inequality $(9x+36) \leq 0, x \in \mathbb{Z}$



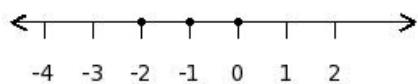
(i) I (ii) II (iii) III (iv) IV

14. Identify the solution for the inequality

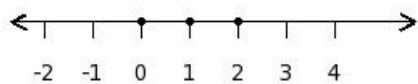
$$7 > (9x+1) > (-22), x \in \mathbb{Z}$$



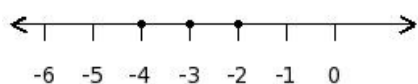
(I)



(II)



(III)



(IV)

(i) I (ii) IV (iii) II (iv) III

15. Which of the following inequations is not the same as

$$(-4x-4) < (x+7), x \in \mathbb{Z}$$

(i) $(-10x-6) < (-6x+4), x \in \mathbb{Z}$ (ii) $1 < (5x+12), x \in \mathbb{Z}$ (iii) $(-11x-7) < (-6x+4), x \in \mathbb{Z}$

(iv) $(-8x-3) < (-3x+8), x \in \mathbb{Z}$ (v) $(-10x-6) < (-5x+5), x \in \mathbb{Z}$

16. Which of the following inequations is not the same as

$$(4x-4) \leq (9x-6), x \in \mathbb{Z}$$

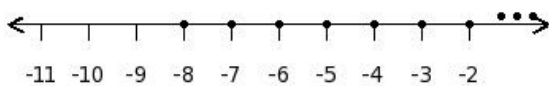
(i) $(-4x+1) \leq (x-1), x \in \mathbb{Z}$ (ii) $(-3x-12) \leq (10x-5), x \in \mathbb{Z}$ (iii) $(5x-3) \leq (10x-5), x \in \mathbb{Z}$

(iv) $(13x+4) \leq (18x+2), x \in \mathbb{Z}$ (v) $(-3x-12) \leq (2x-14), x \in \mathbb{Z}$

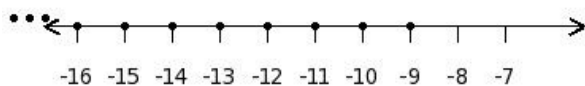
17. Identify the solution for the inequality $(x+8) \geq 0, x \in \mathbb{Z}$



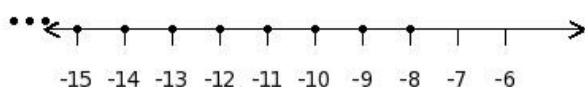
(I)



(II)



(III)



(IV)

(i) IV (ii) I (iii) II (iv) III

18. The solution set of the inequality $(-5x+2) < (3x+2), x \in \mathbb{Z}$ is

(i) $\{0, -1, -2, -3, -4, \dots\}$ (ii) $\{2, 3, 4, 5, 6, \dots\}$ (iii) $\{1, 2, 3, 4, 5, \dots\}$ (iv) $\{-1, -2, -3, -4, -5, \dots\}$ (v) $\{0, 1, 2, 3, 4, \dots\}$

19. The solution set of the inequality $(-9x-2) > 0, x \in \mathbb{Z}$ is

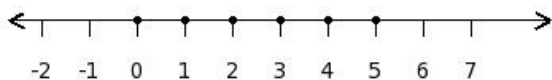
- (i) $\{0, 1, 2, 3, 4, \dots\}$ (ii) $\{-9, -8, -7, -6, -5, \dots\}$ (iii) $\{-3, -4, -5, -6, -7, \dots\}$ (iv) $\{-1, -2, -3, -4, -5, \dots\}$

20. The simplified form of the inequality $(-2x-3) \geq (-5), x \in \mathbb{Z}$ is

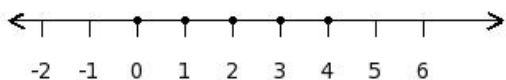
- (i) $x \leq 1, x \in \mathbb{Z}$ (ii) $x > \frac{3}{2}, x \in \mathbb{Z}$ (iii) $x \leq \frac{1}{2}, x \in \mathbb{Z}$ (iv) $x < \frac{3}{2}, x \in \mathbb{Z}$ (v) $x \geq \frac{1}{2}, x \in \mathbb{Z}$

21. Identify the solution for the inequality

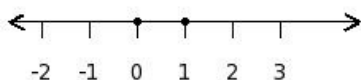
$$(4x-4) \leq 0, x \in \mathbb{W}$$



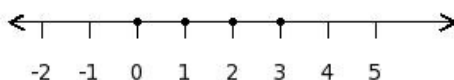
(I)



(II)



(III)



(IV)

- (i) IV (ii) III (iii) II (iv) I

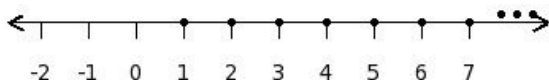
22. Which of the following inequations is not the same as

$$(-5x-6) \geq (8x-2), x \in \mathbb{Z}$$

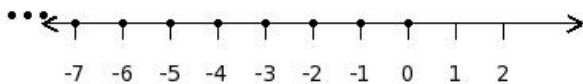
- (i) $(-11x-10) \geq (2x-6), x \in \mathbb{Z}$ (ii) $(-11x-9) \geq (2x-5), x \in \mathbb{Z}$ (iii) $(-6x+3) \geq (7x+7), x \in \mathbb{Z}$

- (iv) $(3x+3) \geq (2x-6), x \in \mathbb{Z}$ (v) $(3x+3) \geq (16x+7), x \in \mathbb{Z}$

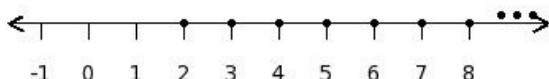
23. Identify the solution for the inequality $(-4x+4) < 0, x \in \mathbb{Z}$



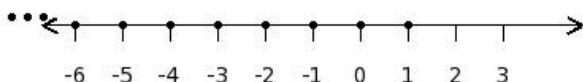
(I)



(II)



(III)



(IV)

- (i) I (ii) IV (iii) III (iv) II

24. Which of the following inequations is not the same as
 $(-8x+9) \leq (4x+2), x \in \mathbb{Z}$

- (i) $(-40x+45) \leq (20x+10), x \in \mathbb{Z}$ (ii) $(72x-81) \leq (-4x-2), x \in \mathbb{Z}$ (iii) $(-64x+72) \leq (32x+16), x \in \mathbb{Z}$
(iv) $(72x-81) \geq (-36x-18), x \in \mathbb{Z}$ (v) $(8x-9) \geq (-4x-2), x \in \mathbb{Z}$

25. Which of the following inequations is the same as
 $(4x+1) \leq (-x+6), x \in \mathbb{Z}$

- (i) $(4x+1) < (9x-54), x \in \mathbb{Z}$ (ii) $(4x+1) > (9x-54), x \in \mathbb{Z}$ (iii) $(-36x-9) < (-x+6), x \in \mathbb{Z}$
(iv) $(-36x-9) > (-x+6), x \in \mathbb{Z}$ (v) $(-36x-9) \geq (9x-54), x \in \mathbb{Z}$

Assignment Key

1) (i)	2) (ii)	3) (ii)	4) (iv)	5) (ii)	6) (i)
7) (i)	8) (ii)	9) (ii)	10) (ii)	11) (v)	12) (iv)
13) (ii)	14) (iii)	15) (i)	16) (ii)	17) (iii)	18) (iii)
19) (iv)	20) (i)	21) (ii)	22) (iv)	23) (iii)	24) (ii)
25) (v)					