

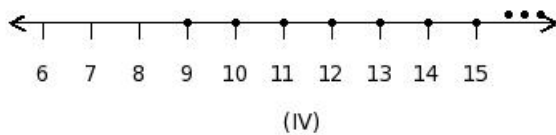
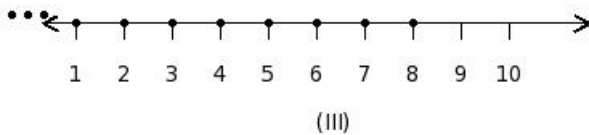
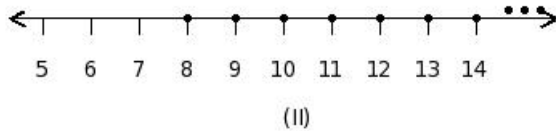
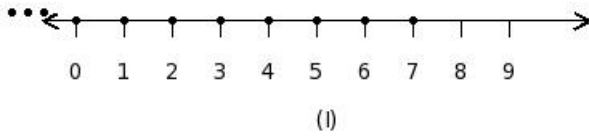
EduSahara™ Learning Center Assignment

Grade : Class X, ICSE

Chapter : Linear Inequations

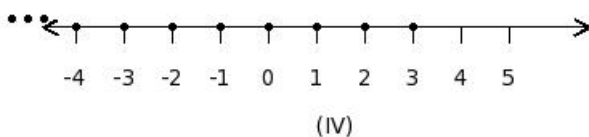
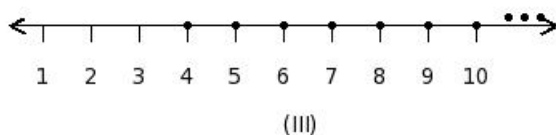
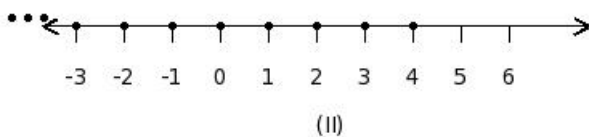
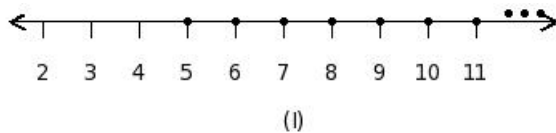
Name : Linear Inequations Graphical Solutions

1. Identify the solution for the inequality $(-9x + 72) < 0, x \in \mathbb{Z}$



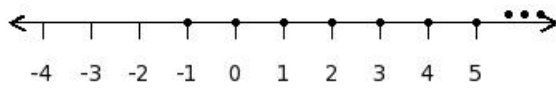
(i) II (ii) IV (iii) I (iv) III

2. Identify the solution for the inequality $(-5x + 20) > 0, x \in \mathbb{Z}$

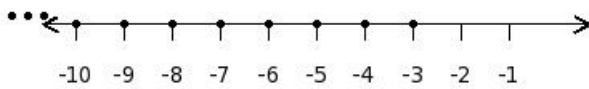


(i) I (ii) III (iii) II (iv) IV

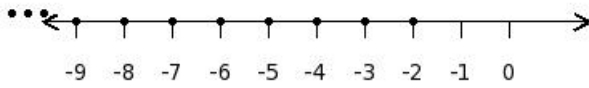
3. Identify the solution for the inequality $(-5x - 10) \leq 0, x \in \mathbb{Z}$



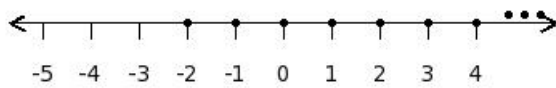
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(II)



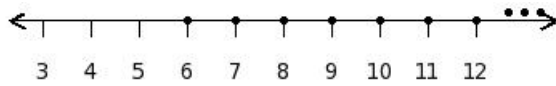
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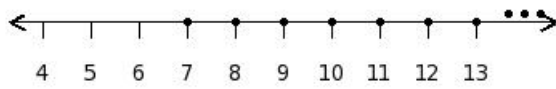
(IV)

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

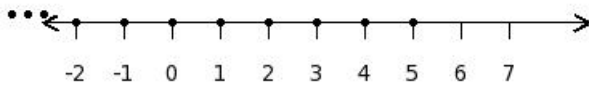
4. Identify the solution for the inequality $(-5x + 30) \geq 0, x \in \mathbb{Z}$



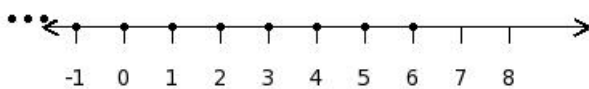
(I)



(II)



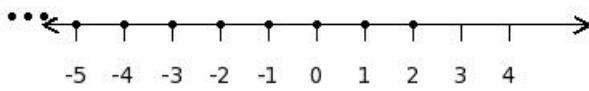
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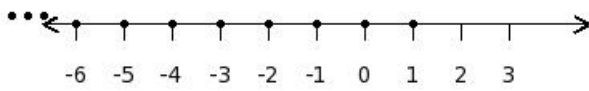
(IV)

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

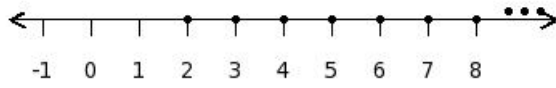
5. Which of the following figures represents the solution set $\{1, 0, -1, -2, -3, -4, \dots\}$



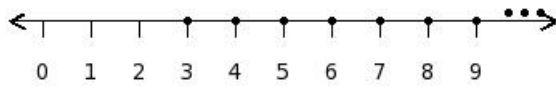
(I)



(II)



(III)

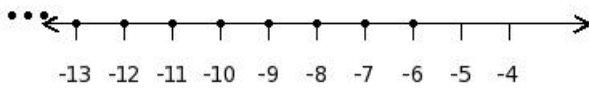


(IV)

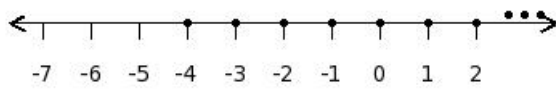
(i) II (ii) III (iii) IV (iv) I

Which of the following figures represents the solution set

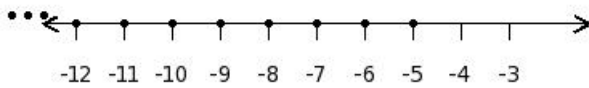
6. $\{-6, -7, -8, -9, -10, -11, \dots\}$



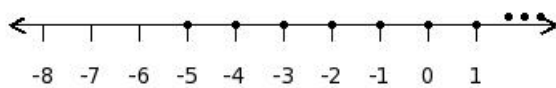
(I)



(II)



(III)

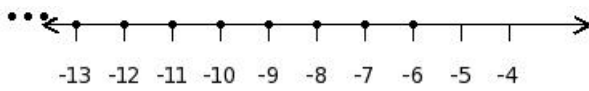


(IV)

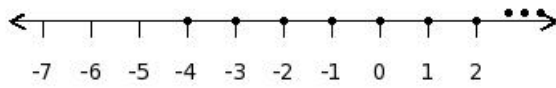
(i) IV (ii) I (iii) II (iv) III

Which of the following figures represents the solution set

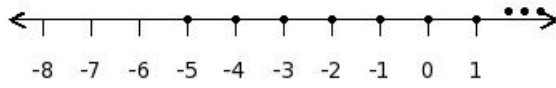
7. $\{-5, -6, -7, -8, -9, -10, \dots\}$



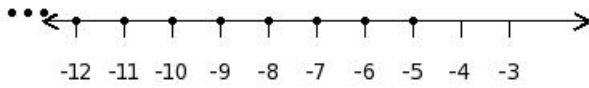
(I)



(II)



(III)

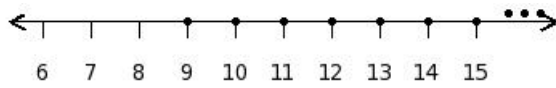


(IV)

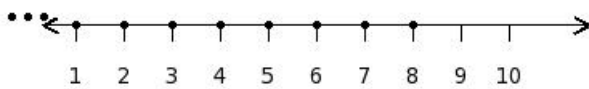
(i) I (ii) IV (iii) III (iv) II

Which of the following figures represents the solution set

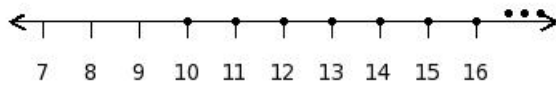
8. $\{9, 10, 11, 12, 13, 14, \dots\}$



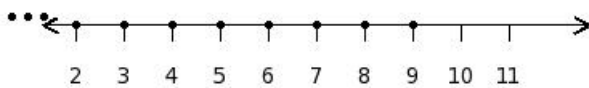
(I)



(II)



(III)

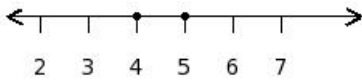


(IV)

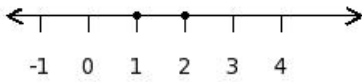
(i) II (ii) III (iii) I (iv) IV

Identify the solution for the inequality

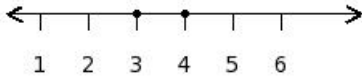
9. $15 < (7x - 2) < 28, x \in \mathbb{Z}$



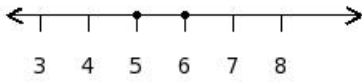
(I)



(II)



(III)

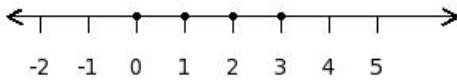


(IV)

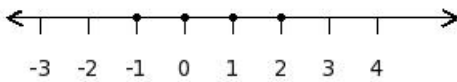
(i) I (ii) III (iii) II (iv) IV

Identify the solution for the inequality

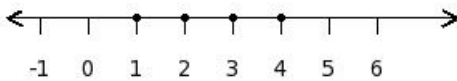
10. $(-11) < (-7x + 6) \leq 16, x \in \mathbb{Z}$



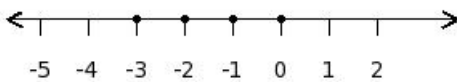
(I)



(II)



(III)

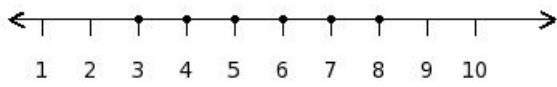


(IV)

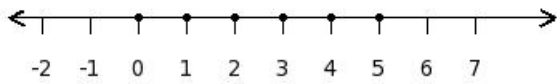
(i) III (ii) II (iii) IV (iv) I

Identify the solution for the inequality

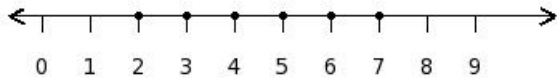
11. $10 \leq (3x + 5) \leq 27, x \in \mathbb{Z}$



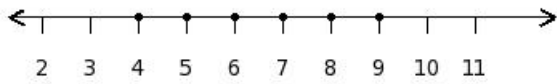
(I)



(II)



(III)

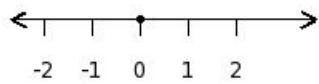


(IV)

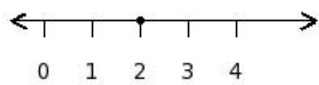
(i) I (ii) III (iii) IV (iv) II

Identify the solution for the inequality

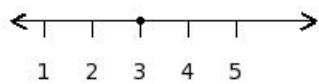
12. $17 \leq (9x + 7) < 28, x \in \mathbb{Z}$



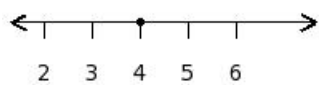
(I)



(II)



(III)

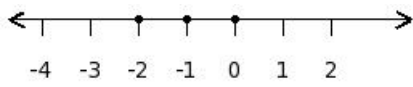


(IV)

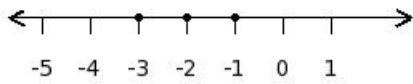
(i) III (ii) IV (iii) I (iv) II

Identify the solution for the inequality

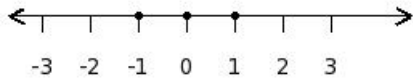
13. $5 > (8x + 7) > (-23), x \in \mathbb{Z}$



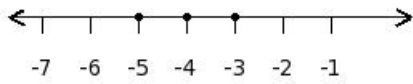
(I)



(II)



(III)

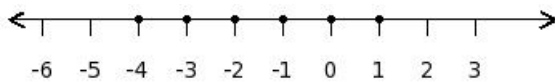


(IV)

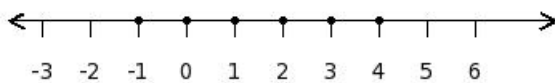
(i) I (ii) II (iii) III (iv) IV

Identify the solution for the inequality

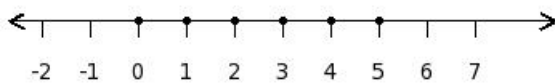
14. $2 \geq (-3x - 4) \geq (-15), x \in \mathbb{Z}$



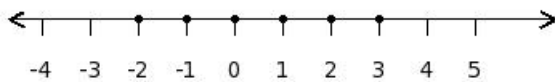
(I)



(II)



(III)

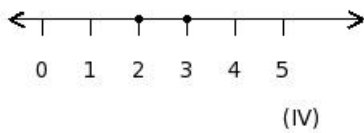
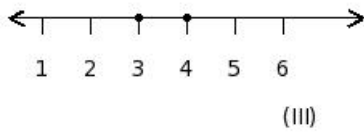
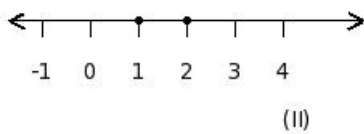
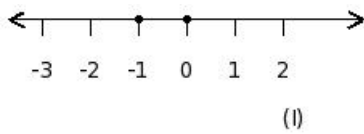


(IV)

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

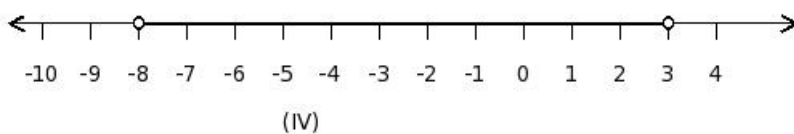
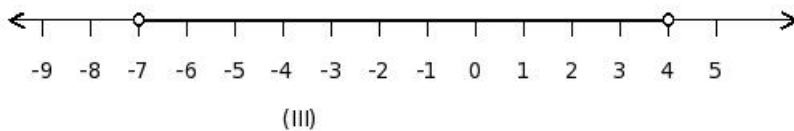
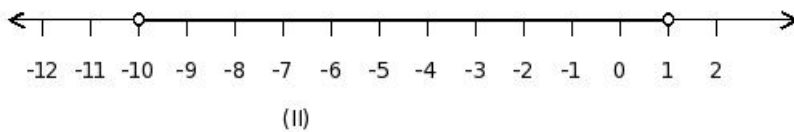
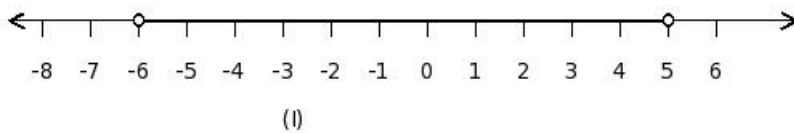
Identify the solution for the inequality

15. $(-10) \geq (-8x - 2) > (-22), x \in \mathbb{Z}$



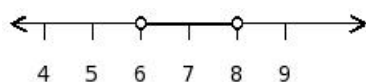
(i) IV (ii) III (iii) I (iv) II

16. Identify the solution for the inequality $(-22) < (3x + 2) < 11, x \in \mathbb{R}$

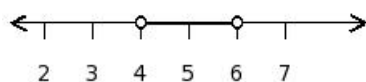


(i) I (ii) IV (iii) II (iv) III

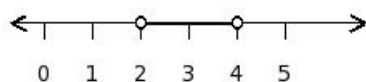
17. Identify the solution for the inequality $(-48) < (-9x + 6) < (-30), x \in \mathbb{R}$



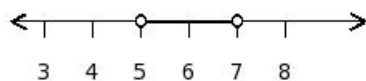
(I)



(II)



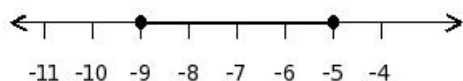
(III)



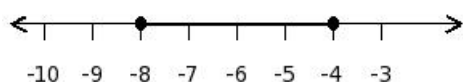
(IV)

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

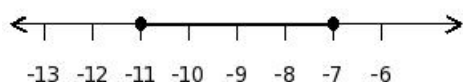
18. Identify the solution for the inequality $(-40) \leq (4x - 4) \leq (-24), x \in \mathbb{R}$



(I)



(II)



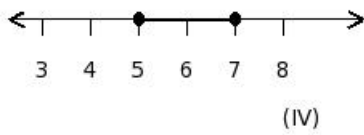
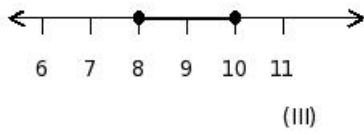
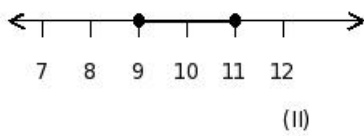
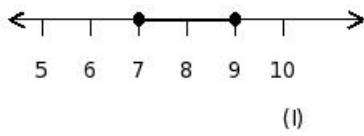
(III)



(IV)

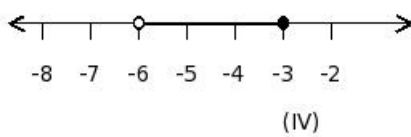
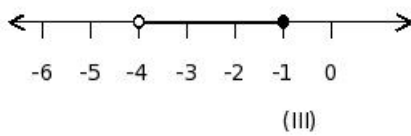
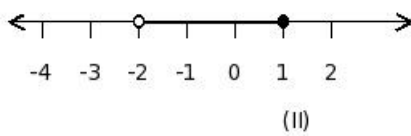
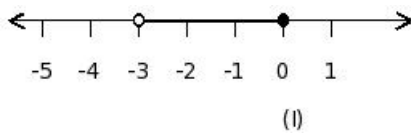
(i) IV (ii) II (iii) I (iv) III

19. Identify the solution for the inequality $(-46) \leq (-6x + 8) \leq (-34), x \in \mathbb{R}$



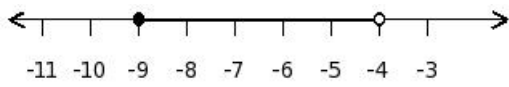
(i) IV (ii) III (iii) II (iv) I

20. Identify the solution for the inequality $(-14) < (4x + 2) \leq (-2)$, $x \in \mathbb{R}$

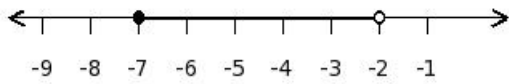


(i) II (ii) III (iii) I (iv) IV

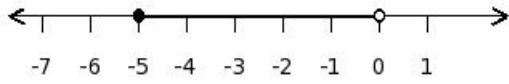
21. Identify the solution for the inequality $(-2) \leq (x + 5) < 3$, $x \in \mathbb{R}$



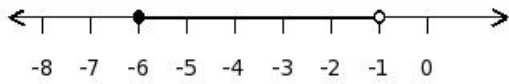
(I)



(II)



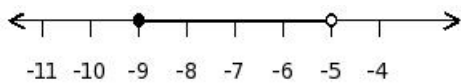
(III)



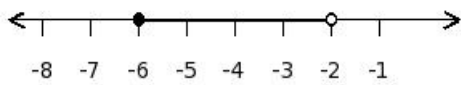
(IV)

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

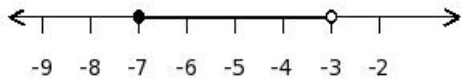
22. Identify the solution for the inequality $(-32) > (9x - 5) \geq (-68), x \in \mathbb{R}$



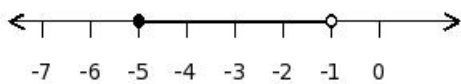
(I)



(II)



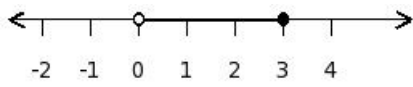
(III)



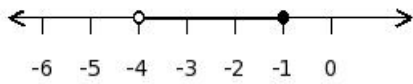
(IV)

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

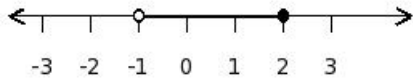
23. Identify the solution for the inequality $0 \leq (-6x + 6) < 18, x \in \mathbb{R}$



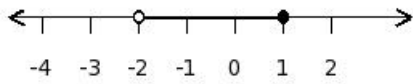
(I)



(II)



(III)

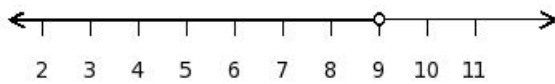


(IV)

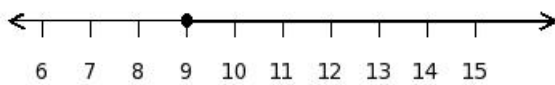
(i) IV (ii) II (iii) I (iv) III

Which of the following figures represents the solution set of

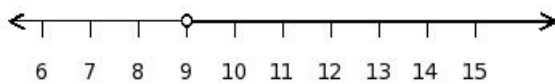
24. $(-x + 9) < 0, x \in \mathbb{R}$



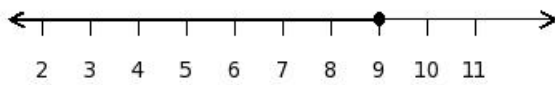
(I)



(II)



(III)

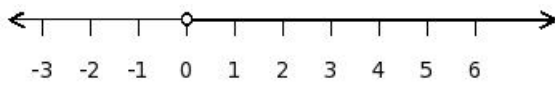


(IV)

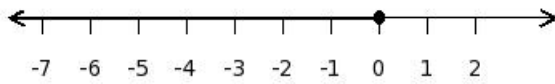
(i) IV (ii) II (iii) III (iv) I

Which of the following figures represents the solution set of

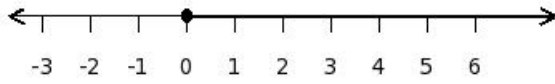
25. $6x > 0, x \in \mathbb{R}$



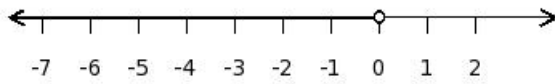
(I)



(II)



(III)

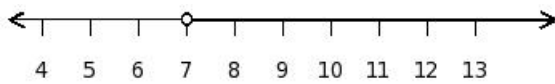


(IV)

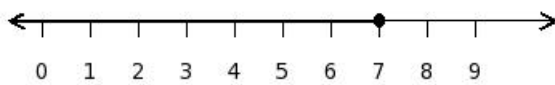
(i) IV (ii) II (iii) I (iv) III

Which of the following figures represents the solution set of

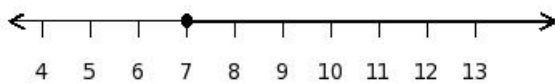
26. $(6x - 42) \leq 0, x \in \mathbb{R}$



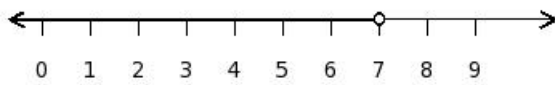
(I)



(II)



(III)

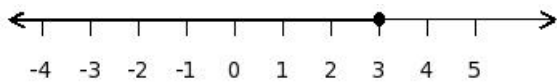


(IV)

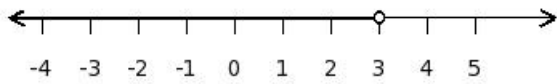
(i) I (ii) IV (iii) III (iv) II

Which of the following figures represents the solution set of

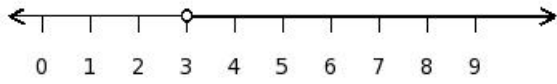
27. $(5x - 15) \geq 0, x \in \mathbb{R}$



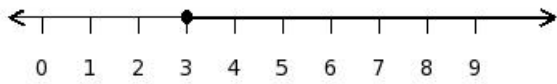
(I)



(II)



(III)

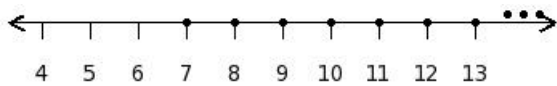


(IV)

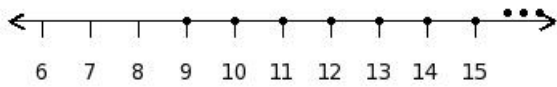
(i) II (ii) III (iii) IV (iv) I

Identify the solution for the inequality

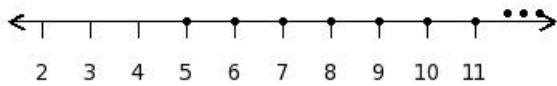
28. $(-4x + 16) < 0, x \in \mathbb{N}$



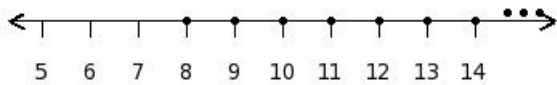
(I)



(II)



(III)

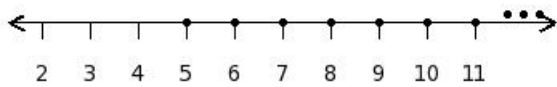


(IV)

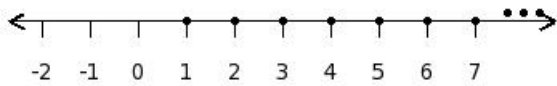
(i) II (ii) III (iii) I (iv) IV

Identify the solution for the inequality

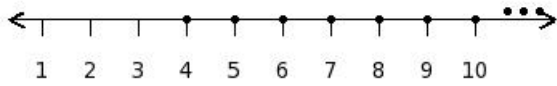
29. $(-4x - 8) \leq 0, x \in \mathbb{N}$



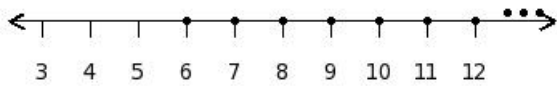
(I)



(II)



(III)

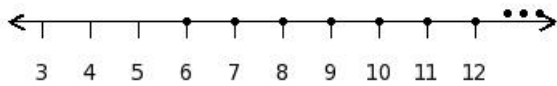


(IV)

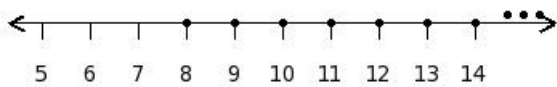
(i) I (ii) II (iii) IV (iv) III

Identify the solution for the inequality

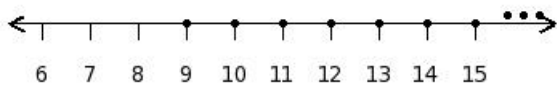
30. $(7x - 35) > 0, x \in \mathbb{N}$



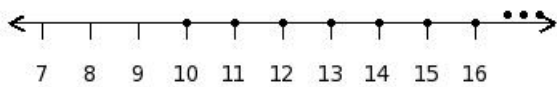
(I)



(II)



(III)

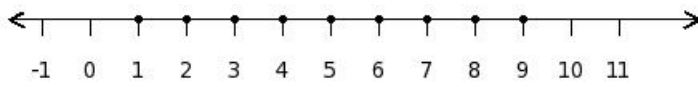


(IV)

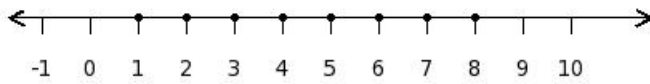
(i) III (ii) II (iii) I (iv) IV

Identify the solution for the inequality

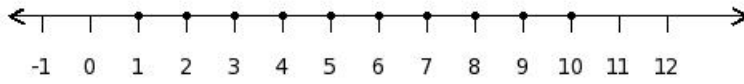
31. $(-9x + 54) \geq 0, x \in \mathbb{N}$



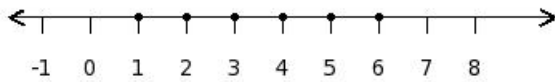
(I)



(II)



(III)

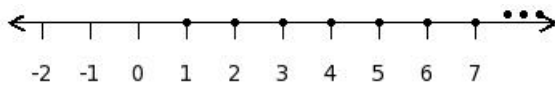


(IV)

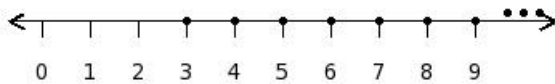
(i) I (ii) III (iii) IV (iv) II

Identify the solution for the inequality

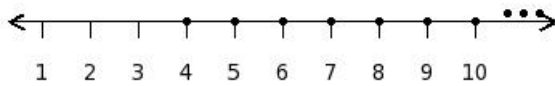
32. $(-2x) < 0, x \in W$



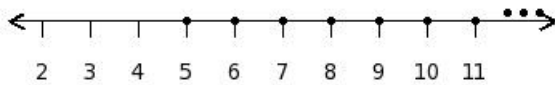
(I)



(II)



(III)

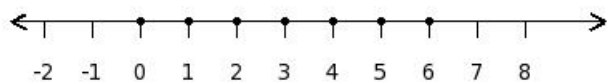


(IV)

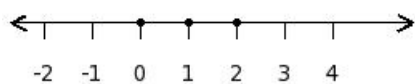
(i) III (ii) I (iii) II (iv) IV

Identify the solution for the inequality

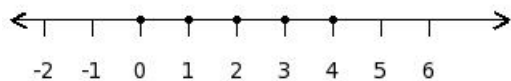
33. $(9x - 18) \leq 0, x \in W$



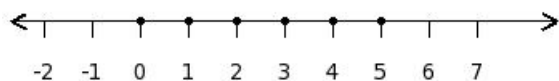
(I)



(II)



(III)

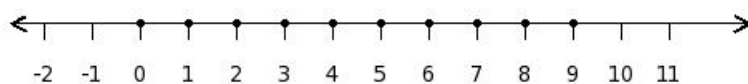


(IV)

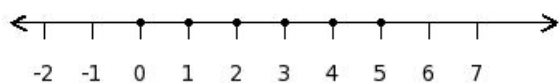
(i) III (ii) IV (iii) I (iv) II

Identify the solution for the inequality

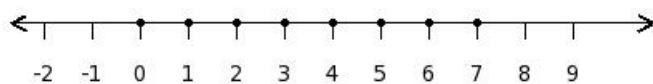
34. $(-9x + 54) > 0, x \in W$



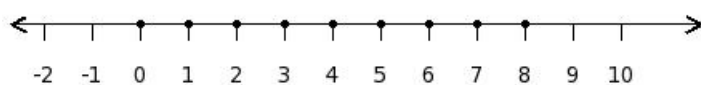
(I)



(II)



(III)

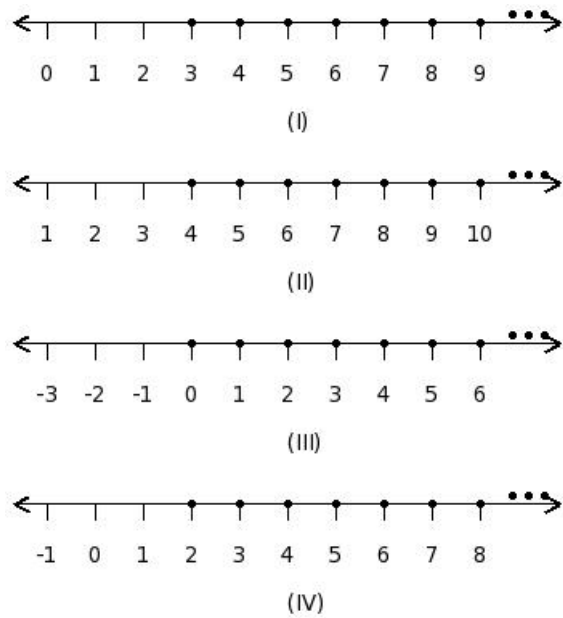


(IV)

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

Identify the solution for the inequality

35. $9x \geq 0, x \in W$



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

Assignment Key

- 1) (ii)
- 2) (iv)
- 3) (i)
- 4) (ii)
- 5) (i)
- 6) (ii)
- 7) (ii)
- 8) (iii)
- 9) (ii)
- 10) (ii)
- 11) (ii)
- 12) (iv)
- 13) (ii)
- 14) (ii)
- 15) (iv)
- 16) (ii)
- 17) (ii)
- 18) (iii)
- 19) (iv)
- 20) (ii)
- 21) (ii)
- 22) (iii)
- 23) (i)
- 24) (iii)
- 25) (iii)
- 26) (iv)
- 27) (iii)
- 28) (ii)
- 29) (ii)
- 30) (iii)
- 31) (iii)
- 32) (ii)
- 33) (iv)
- 34) (iii)
- 35) (iv)