

Directions: Choose the correct answer.

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6. The solution of the inequality $x - 19 \leq -3x - 7 \leq 2x + 3$ is?

a) $-2 \leq x \leq 3$

c) $-4 \leq x \leq 3$

b) $1 \leq x \leq 3$

d) $-1 \leq x \leq 3$

7. Which of the following is the solution of the inequality $4\left(\frac{x}{3} + \frac{1}{2}\right) > \frac{x}{2} + 7$?

a) $X > 7$

c) $X > 5$

b) $X > 6$

d) $X > 64$

8. What is the value of x in the inequality $(x + 1)^2 > (x - 5)^2$?

a) $X < 2$

c) $x > 4$

b) $x \leq 2$

d) $x > 2$

9. Consider which one is linear inequality in one variable

a) $2x + 8 < 5$

c) $\frac{3(2x+6)}{5} = 9$

b) $X + y + 10 < 5$

d) $4X^2 + 2x + 10 < 5$

10. Which inequality equation best represent the solution shown on the number line below.



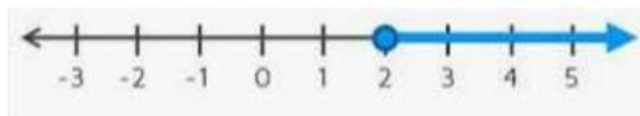
a) $x > 5$

c) $5 < x \leq 9$

b) $5 \leq x \leq 9$

d) $x \geq 9$

11. Which word sentence represent the solution shown on the number line below.



a) Represent 2, and every number more than or equal to 2

c) Represent 2, and every number less than 2

b) Every number more than 2

d) Represent 2, and every number less than or equal to 2

Part II.**Direction:** Show your working clearly.

12. Solve the inequality and graph it on a number line. $4(2x - 3) + 2(1 - 2x) \leq 2x - 5$

13. Solve the inequality and graph it on a number line. $|x - 3| < 7$

14. Three times a number minus 15 is less than 6. Find this number.

15. Solve the inequality. $2(x - 1) \leq 5(x + 2) - 3$

Good luck!!