

Directions: Choose the correct answer.

- Two times the sum of a number and 8 is less than five. Represent in inequality form.
 - $x + 8 < 5$
 - $2(x + 8) < 5$
 - $2x + 8 < 5$
 - $2x < 5$
- Which of the following is the solution of the inequality $2 - 3x < -7$?
 - $x \geq$
 - $x < -3$
 - $x > 3$
 - $x < -\frac{5}{3}$
- Solve for the value of x in the inequality $|3x - 2| < 5$?
 - $-1 < x < \frac{7}{3}$
 - $-1 < x < \frac{8}{3}$
 - $-2 < x < \frac{7}{3}$
 - $-2 < x < \frac{8}{3}$
- Solve for the value of x in the inequality $\frac{3(2x+6)}{5} < 9$
 - $x < \frac{1}{3}$
 - $x < \frac{7}{2}$
 - $x < \frac{5}{3}$
 - $x < \frac{9}{2}$
- Three times a number add to 3 is less than two times the same number minus 4. What is the number?
 - $x < 7$
 - $x < -7$
 - $x > 7$
 - $x > -7$

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!!