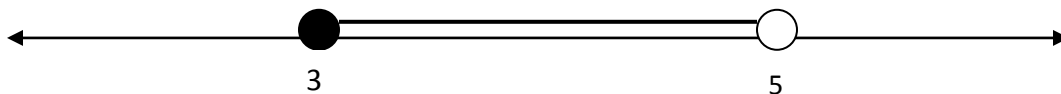




- *15 questions
- *Calculators allowed
- *Show all work/steps- use separate paper
- *Recommend time frame 30min -45min

Concept of Inequalities

1. Write an inequality that states "some number is greater than 4".
2. True or False? Inequalities always have more than one number as a solution.
3. Describe the graph to the linear inequality: $3 < x < 8$
4. When solving an inequality what happens to the inequality sign if you multiply both sides by a negative number?
5. Write an inequality to translate "the car will cost at least \$25,000."
6. Write an inequality to translate "his age is somewhere between 60 and 70."
7. Is -9 a solution to the inequality $x < -10$?
8. Write the inequality that goes with this graph:



Solving and Graphing Linear Inequalities

Directions: solve and graph the following linear inequalities.

9. $4x < 12$

10. $-3x \geq 9$

11. $-x + 5 > -10x - 7$

12. $3(x - 1) \leq -15$

13. $10 < 2x \leq 12$

14. $1 \leq 2(x + 3) \leq x - 4$

15. $-5(3x + 1) > (x - 2)$