**Unit 9 Video Study Guide – www.youtube.com/user/NHSAlgebra1**

Part One – Solving Inequalities

1) Copy the chart:

Less Than Greater Than

2) When you multiply or divide by a \_\_\_\_\_\_\_\_\_\_\_\_, you \_\_\_\_\_\_\_\_\_\_\_\_\_ the inequality sign.

Part Two - Solving Multi-step Inequalities

3) Write the 2-step inequality from the car scene.

4) How much will Mr. Sheehan and Mrs. Williams contribute to Mr. Flores’ shoe purchase?

Part Three – Compound Inequalities (And)

5) What are some other words that mean “and” in a compound inequality?

6) Compound “and” inequalities usually point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Part Four – Compound Inequalities (Or)

7) Compound “or” inequalities usually point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6) Write the solution and draw the graph from example 2 (green):

Part Five – Graphing Inequalities in two variables

8) For \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inequalities, use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ line.

For \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inequalities, use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ line.

9) How do you know which side to shade?

Part Six – Systems of Inequalities

1) \_\_\_\_\_\_\_\_\_\_\_\_ both inequalities.

2) The solution is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ where the shading \_\_\_\_\_\_\_\_\_\_\_\_\_\_.