Graphing Linear Inequalities
2 variables

1) graph $x>2$ on a coofdinate plane

2) graph $y \leq x+2$ and $y \geq 1$

$\qquad$
3) Write the system of inequalities that is graphed here.

4) Write the system of inequalities that is graphed here.

A.) $y>-x+1$ and $y>x-5$
B.) $y>x-1$ and $y>x-5$
C.) $y>-x+1$ and $y>-x-5$

Care is throwing a party. One package of wings costs $\$ 7$ (independent variable), Hot dogs cost $\$ 4$ per pound. His budget must remain under \$40 and Care knows he'll buy at least 5 pounds of hot dogs.
11) Cale writes the system of inequalities that represents his food situation (because that's the kind of stuff Call does). What is it?

12) Based on this graph, what are two examples of purchases he can make?


The number of packages of wings (0,10) $(1,7)(0,5)$
13) Show that your answers in \#12 make sense with your inequalities in ${ }^{411} 7 x+4 y<40$ $7(1)+4(7)<40$


