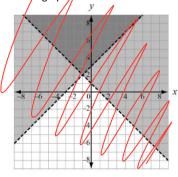


9) Write the system of inequalities that is graphed here.

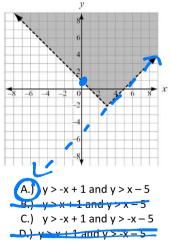


Cale is throwing a party. One package of wings costs \$7 (independent variable). Hot dogs cost \$4 per pound. His budget must remain under \$40, and Cale knows he'll buy at least 5 pounds of hot dogs.

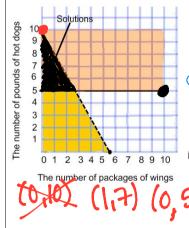
11) Cale writes the system of inequalities that represents his food situation (because that's the kind of stuff Cale does). What is it?

14) The length of a rectangle exceeds its width by 8 inches. The perimeter is at least 80 inches. Find the smallest possible dimensions for the length and width.

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



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



13) Show that your answers in #12 make sense with your inequalities in #11. $7x + 4y \leq 40$ $7(1) + 4(7) \leq 40$ $35 \leq 40$ 15) A student received grades of 92, 95, and 81 on the first three exams. What grade must the student earn on the fourth exam to get an average of no less than an A?

