7.2 Solving systems of inequalities

When writing systems of inequalities you must follow the following steps:

1. Define your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Write down \_\_\_\_\_\_\_\_\_\_\_\_\_\_ inequalities

Practice writing the systems for the story problems below:

1. Jason is buying wings and hotdogs for a party. One package of wings is $7. Hotdogs cost $4 per pound. He must spend less than $40 and he is buying at least 5 lbs of hotdogs. Write the system of inequalities to represent the situation.
2. The boys and girls soccer clubs are trying to raise money for new uniforms. The boys’ soccer club is selling candy for $2 a piece and the girls’ soccer club is selling candles for $4. They must raise more than $800. The boys and girls expect to sell about 600 items. Write two inequalities to represent the situation.