1. Jessica lives at J and wants to invite some friends for a visit. She only wants to consider friends who live less than 4 blocks away. Where should she look? First, find and mark every point that is exactly 4 blocks from her house. This is called a taxicab circle. Then, shade in every point that is less than 4 blocks from her house. Jessica could invite any friend who lives in this region.

2. Katelyn is at K and is going to visit Leonardo at L. Katelyn would like to stop at a video store as long as it’s “on the way”. In other words, she will consider any location that does not increase her total distance. Shade in the set of all such points. This is the set of points that are taxicab-between K and L.

3. Miguel works at M, and Nadia works at N. They want to meet somewhere for dinner, but they insist on choosing a location so that they will have equal walking distances. Mark every point that satisfies this condition. This is called the taxicab bisector of M and N.
4. Priscilla has dropped off packages at the post office (P) and is heading back to work at the quarry (Q). She figures she has enough time to eat lunch if she does not have to walk more than 11 blocks total. Help her map out her lunch options: First, mark every point that requires her to walk exactly 11 blocks total (from P to the point and then from that point to Q). Then, shade in the region that includes points which allow her to walk less than 11 blocks total.

5. Rachel lives at R, and Steven lives at S. Draw the taxicab bisector of R and S. Then, shade in all points that are closer to Rachel than to Steven.

6. Theresa works at T, and Ursula works at U. They are looking for an apartment to share as roommates. Since Theresa has a car and Ursula does not, the girls have decided that they should live at a location where Theresa will drive exactly 5 blocks more to work than Ursula has to walk to work. Mark all points where they could live.