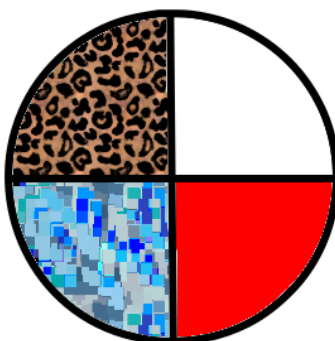# Homework 5 extra problems

This is a cake with four parts.
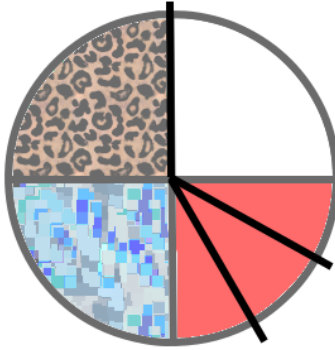

Question 1. Let's say 3 people (A,B,C) are dividing the cake using the lone divider method.

- A likes the leopard print and the blue bitties pattern.

- B likes everything equally

- C likes only the red part

Please show how they might divide the cake if A divides first. You may have to draw more than one picture to show the sequence of moves that happen.

Question 2. In the same scenario as before, say that C is the divider, and

divides the cake like this:

Please show how the division would proceed from there using the lone divider method.

Question 3. With the same picture and description as above, let's introduce 3 more people:

- D likes only the white part

- E likes only the red and white parts

- F likes everything except the blue bitties pattern

Please describe how $A, B, C, D, E,$ and F would divide the cake using the lone divider method. Make your initial cuts so that there are at least 2 rounds.