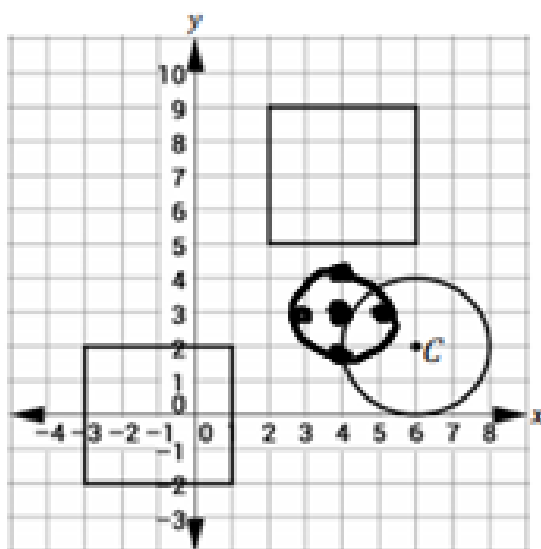


Informal Assessment:

Tom is building a new corral for his horse farm. He wants a corral with half the diameter of his current one. The schematic of his land is shown below. Circle C is the current corral. The rectangles represent barns. Select the series of transformations that would result in a corral that has the dimensions that Tom wants but would not interfere with any other structures.



$(6, 2)$
 $(3, 1)$

- First, dilate the circle centered at point C . Then, $(x, y) \rightarrow (x - 9, y)$.
- First, $(x, y) \rightarrow (x - 6, y + 1)$. Then, $(x, y) \rightarrow (\frac{1}{2}x, \frac{1}{2}y)$.
- First, $(x, y) \rightarrow (\frac{1}{2}x, \frac{1}{2}y)$. Then, $(x, y) \rightarrow (x + 2, y + 5)$.
- First, $(x - 2, y + 1)$. Then, $(x, y) \rightarrow (\frac{1}{2}x, \frac{1}{2}y)$ centered at point C' .