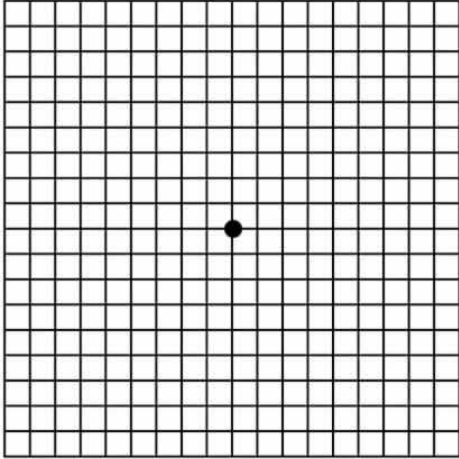


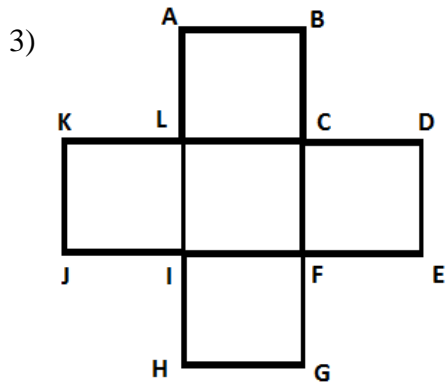
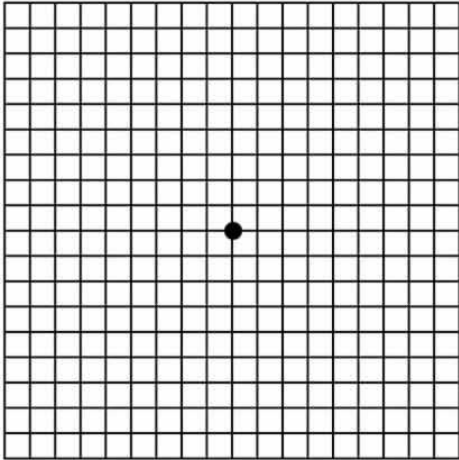
Name: _____
 Date: _____
 Class: _____

Geometry
 Unit 5
 HW 5-3

1) Graph $\triangle ABC$ and its image after R_{90° if $A(1,2)$, $B(5,1)$ and $C(3,4)$



2) Graph $\triangle XAK$ and its image after a 270° clockwise rotation if $X(-2,4)$, $A(3,0)$ and $K(-1,-3)$

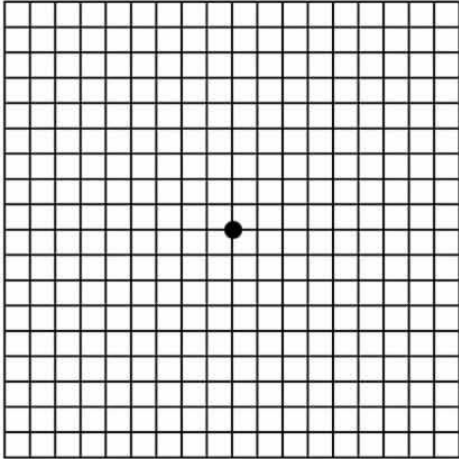


Find the image for:

- a) R_{180° (B)
- b) R_{90° ($\angle ALK$)
- c) R_{450° (\overline{HG})

4) If a dilation maps $(2,1)$ to $(6,3)$ what would the image of $(-\frac{1}{2}, \frac{3}{4})$ be?

5) $\triangle LMP$ with $L(0,4)$, $M(2,0)$, and $P(5,3)$ is translated using the same principle that maps $(-4,-6)$ to $(-8,-5)$. Graph the image of $\triangle LMP$.



6) In #5 reflect $\triangle L'M'P'$ over the line $y=x$

7) If triangle ABC has points $A(1,3)$, $B(5,2)$ and $C(3,-2)$ find the image of this triangle using a dilation with scale factor 3 centered at $(6,-1)$.

8) If a dilation of scale factor 2:5 is performed on a figure, what is true about the angles of the image and preimage? What is true about the area of the image vs the preimage?