

Worksheet

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Name: _____
MA111-003
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Part I: Vocabulary

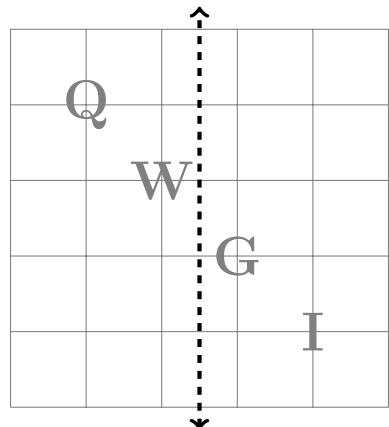
Consider the capital letter E and the following rigid motions.

Match the rigid motion to the closest description of the result:

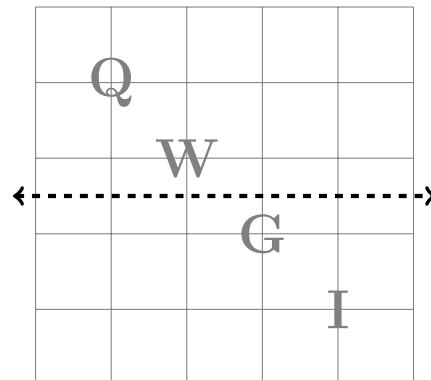
1. Reflect over a vertical line. (a) The letter E
2. Reflect over a horizontal line. (b) The letter M
3. Rotate 90 degrees clockwise. (c) The letter W
4. Rotate 90 degrees counterclockwise. (d) The number 3

Draw the results of the indicated rigid motions:

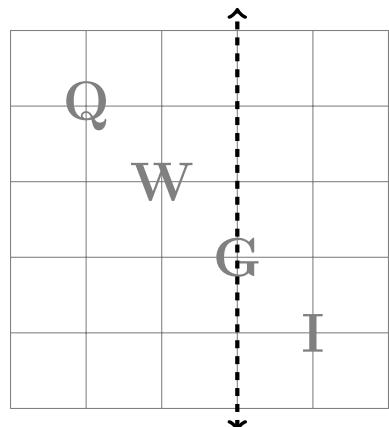
Reflect over the vertical line:



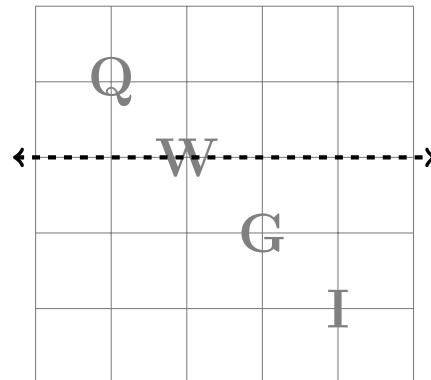
Reflect over the horizontal line:



Reflect over the vertical line:



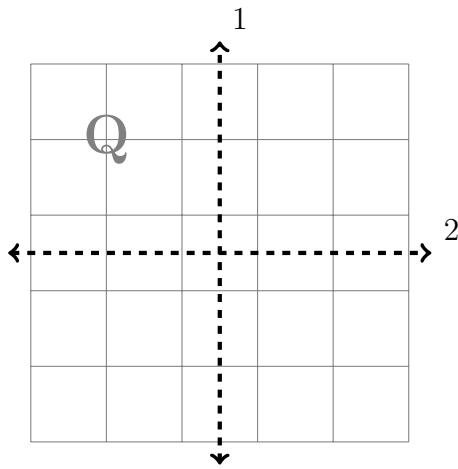
Reflect over the horizontal line:



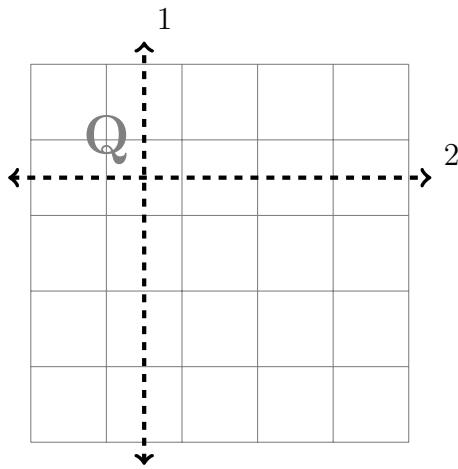
Part II: Composition

1. Apply the first rigid motion to the picture shown. Then apply the second rigid motion to the result of the first.

Reflect over the vertical line,
then reflect over the horizontal line.



Reflect over the vertical line,
then reflect over the horizontal line.



2. Ignore the first reflected Q and only consider the original Q and the twice reflect Q. Describe in words what happens to the original Q to get it to the twice reflected Q.

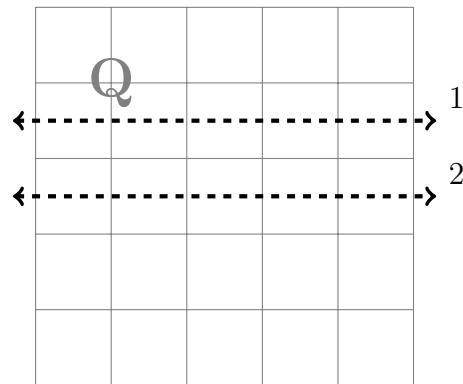
(a)

(b)

(c)

(d)

Reflect over the top horizontal line,
then reflect over the lower horizontal
line.



Reflect over the top horizontal line,
then reflect over the lower horizontal
line.

