

## Translation, Rotation or Reflection (Part 2)

1. Tell how each figure was moved. Write translation, rotation or reflection.



Solution:



Solution:



Solution:



Solution:

2. Draw the figure formed by rotating each of the following by  $180^\circ$  clockwise.



Figure:



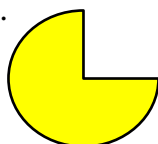
Figure:



Figure:

3. Which of the following figures will remain unchanged after rotating  $45^\circ$  counterclockwise?

a.



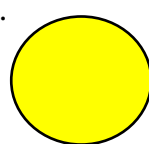
b.



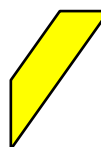
c.



d.



e.



Solution:

4. Perform the series of operations on each of the figure and draw the final figure.



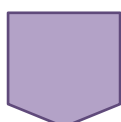
- Rotate  $180^\circ$  clockwise.
- Reflect image from the top.

Figure:



- Reflect image from the front.
- Rotate  $90^\circ$  clockwise.

Figure:



- Rotate  $45^\circ$  clockwise.
- Rotate  $45^\circ$  clockwise.

Figure:

# Translation, Rotation or Reflection (Part 2)

## Answer Key

1. Tell how each figure was moved. Write translation, rotation or reflection.



Translation



Rotation

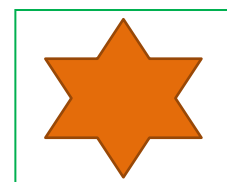
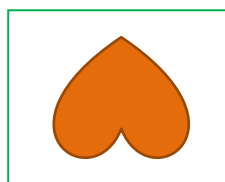
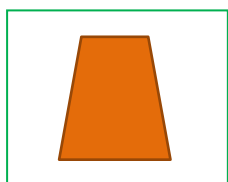


Rotation



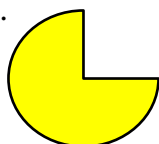
Reflection

2. Draw the figure formed by rotating each of the following by 180° clockwise.



3. Which of the following figures will remain unchanged after rotating 45° counterclockwise?

a.



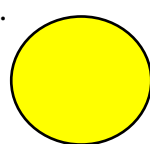
b.



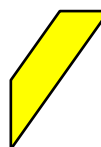
c.



d.



e.



Solution:

d

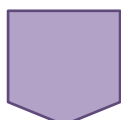
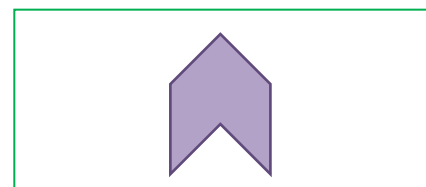
4. Perform the series of operations on each of the figure and draw the final figure.



- Rotate 180° clockwise.
- Reflect image from the top.



- Reflect image from the front.
- Rotate 90° clockwise.



- Rotate 45° clockwise.
- Rotate 45° clockwise.

