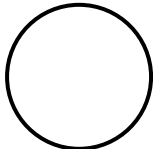


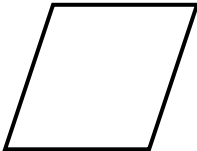
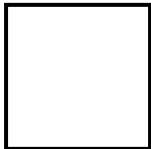
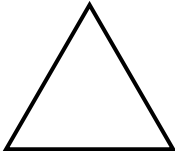
NAME _____ DATE _____ PER. _____

Tessellations

Determine whether each figure could be used as a basic unit for a tessellation.

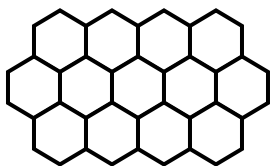
1. YES or NO	A regular 22-gon
2. YES or NO	A regular dodecagon
3. YES or NO	

Use the figure or pair of figures to sketch a tessellation in the space provided.

<p>4.</p> 	
<p>5.</p>  	

Find the correct answer for each of the following. Clearly circle your answers.

6. The honeycomb within a beehive can be modeled by a tessellation of hexagons as shown in the figure below. Which kind of transformation was most likely used to create the tessellation?



- A. Reflections
- B. Translations
- C. Rotations
- D. Dilations

7. Which regular polygon cannot be used to create a tessellation?

- A. An equilateral triangle
- B. A square
- C. A regular pentagon
- D. A regular hexagon

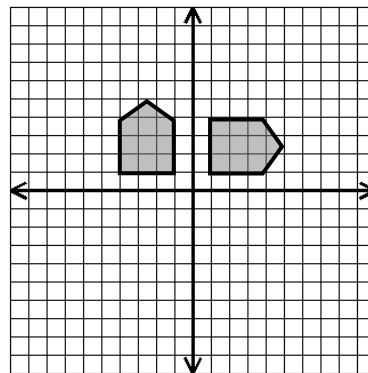
8. Look at the wallpaper pattern below.



Name the type(s) of transformations shown in the wallpaper.

- A. Rotation
- B. Reflection
- C. Translation
- D. All the above

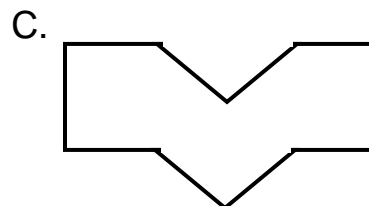
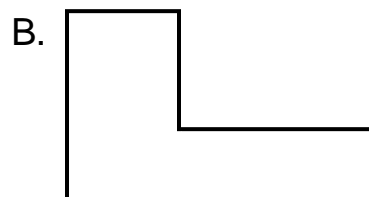
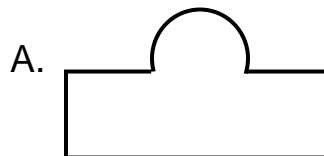
9. Look at the grid below.



Which of the following transformations is shown on the graph?

- A. Dilation
- B. Rotation
- C. Reflection
- D. Translation

9. Which of the following figures could not be used as a basic unit to create a tessellation?



- D. Not here