Section-01-02-Transformation Types

Multiple Choice
Identify the choice that best completes the statement or answers the question.

___ 1. Which type of transformation best describes the pre-image to the image shown below?

- a. Translation by vector m.
- b. Reflection over line m.
- c. Rotation about point R of 90°.
- d. Rotation about point R of 180°.

___ 2. Tell whether the transformation appears to be a translation. Explain.

- a. Yes; all of the points have moved the same distance in the same direction.
- b. No; not all of the points have moved the same distance.

___ 3. Consider the fork on the left was transformed to create the fork on the right.

Which transformation that could NOT transform the picture of the fork on the left to the one on the right?

- a. Rotation about point A by 180°.
- b. Using a Translation.
- c. Reflection over line M.
- d. Dilation through point A.
4. Which statement correctly describes one of the first steps in the process of drawing a reflection?
   a. Through each vertex draw a line perpendicular to the line of reflection.
   b. Measure the distance from each vertex to the line of reflection. Locate the image of each vertex on the same side of the line of reflection and the same distance from it.
   c. Connect the pre-images of the vertices.
   d. Measure the distance from each vertex to the line of reflection. Locate the pre-image of each vertex on the opposite side of the line of reflection and the same distance from it.

5. Name the transformation. (The pre-image is Figure I and the image is Figure II)
   a. Translation  c. Rotation
   b. Dilation    d. Reflection

6. Determine which is the correct center if a 100° rotation was used?
   a. Point A
   b. Point B
   c. Point C
7. Which is the correct line of reflection for the Image and Pre-Image?

a. Line k  
b. Line l  
c. Line m  
d. Line n

8. Find the translation of the triangle along $\mathbf{v}$.

a.  
b.  
c.  
d.  
9. What transformation is being demonstrated below?

a. Translation
b. Rotation
c. Reflection
d. Dilation
e. Glide