- Sample answer: You can compose a transformation of the preimage to its image by applying a sequence of two or more transformations to the preimage until it becomes the image.
- 2. Sample answer: The preimage and the image are the same figure in the same location with the same orientation.
- Sample answer: A 90° counterclockwise rotation about the origin, followed by a reflection across the x-axis.
- Sample answer: A 90° counterclockwise rotation about the origin followed by a translation 6 units down.
- Sample answer: Rotate the figure 90° about the point Z and then translate it down 6 units and then 4 units to the left.
- 6. W" (3,-2), X" (6,-2), Y" (6,0), Z" (3,0)
- 7. 3; 4 reflection; y-axis
- 8. E' (0,0), F' (0,5), G' (-4,5), H' (-4,0)
- 9. Sample answer: A translation 6 units left and 1 unit down, followed by a reflection across the x-axis.
- 10. Q' (3,-1), R' (2,-2), S' (5,-3)
- No; Sample answer: You cannot do a glide reflection with a table, because that requires a reflection, which would flip the table upside down.

12. a. C

b. Sample answer: Reflection across the x-axis, translation 6 units right.

- 13. a. D
 - b. A