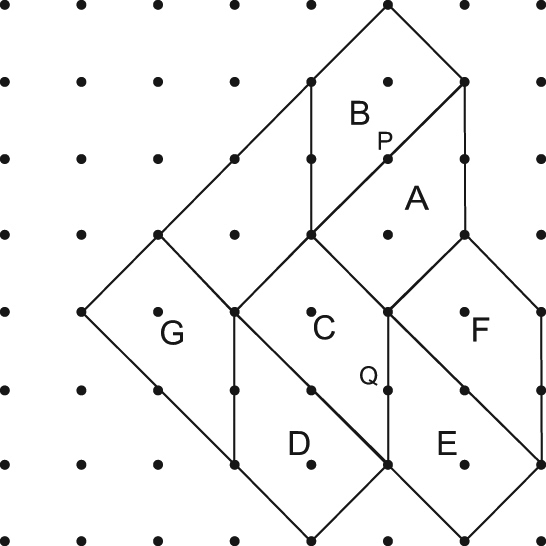
**Unit 8: Shape and Space- Transformations and Tessellations**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1.** Use this design.  
Match each transformation to a transformation image.



**a)** Rotate Shape A 180° about point P.

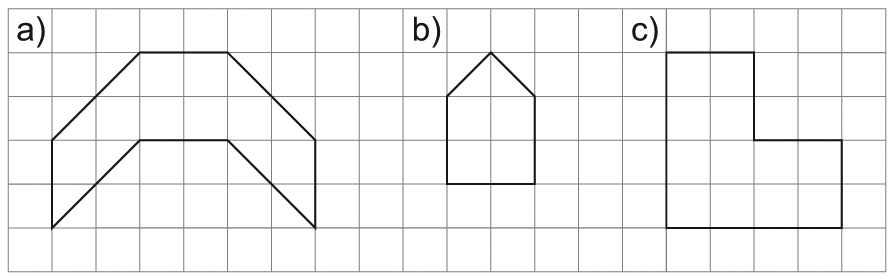
**b)** Translate Shape C 2 units left.

**c)** Rotate Shape D 180° about point Q.

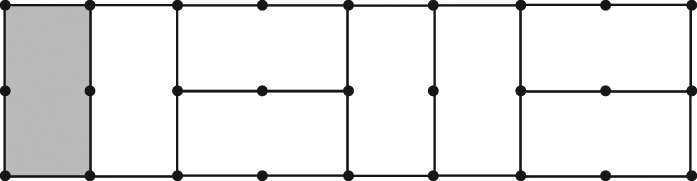
**d)** Translate Shape G 4 units right.

**2.** Copy each shape on grid paper.

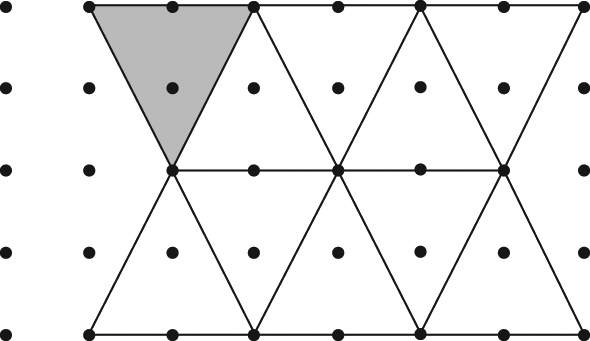
Show one way each shape can be used to tessellate.



**3.** Here are three patterns.  
Describe the transformations that can be used to create each pattern.  
Start with the shaded shape.  
**a)**



**b)**



**c)**

