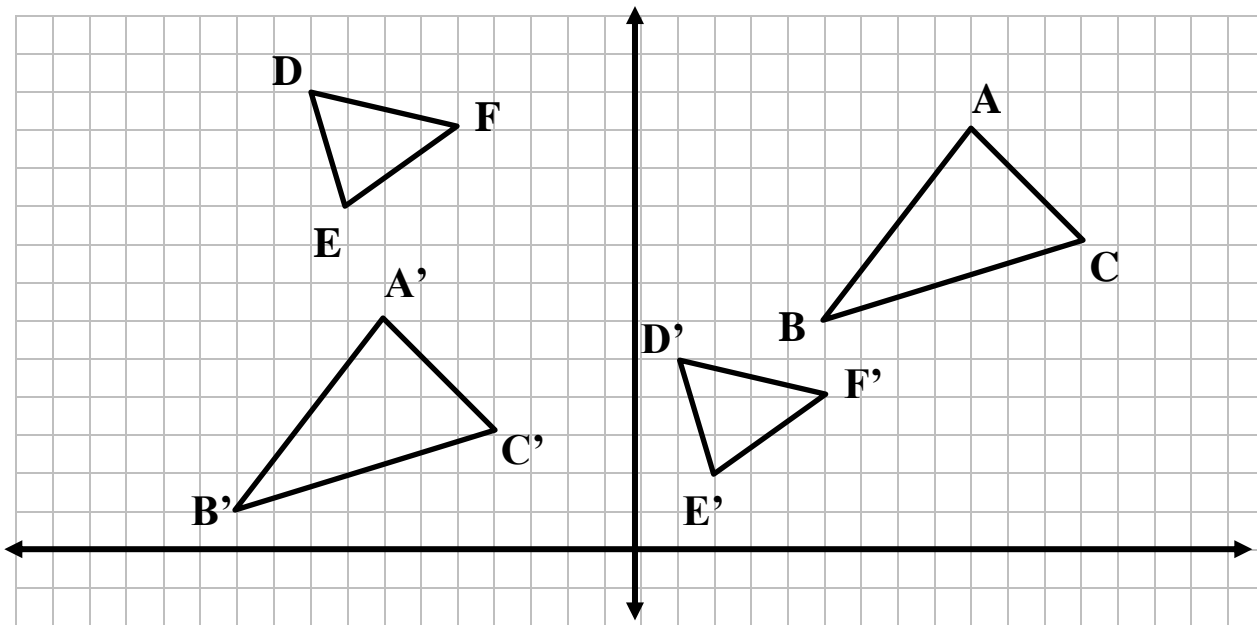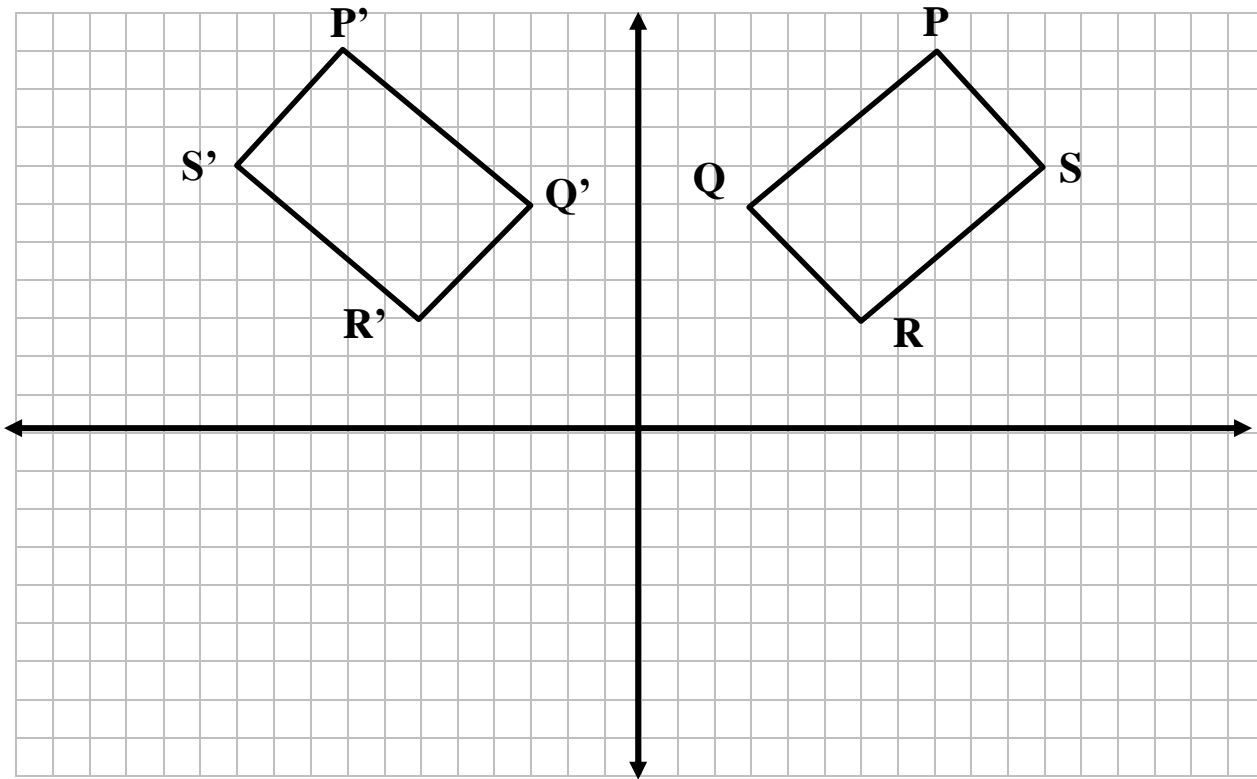# Translations & Reflections
Classwork

Use the following grid to answer questions 1, 2, & 3.

1. Moving ΔABC to $\Delta A'B'C'$.
   a) Write in words the translation of ΔABC.

   b) Write in arrow notation the translation of ΔABC.

   c) Write a coordinate rule to move ΔABC to $\Delta A'B'C'$.

2. Moving ΔDEF to $\Delta D'E'F'$.
   a) Write in words the translation of ΔDEF.

   b) Write in arrow notation the translation of ΔDEF.

   c) Write a coordinate rule to move ΔDEF to $\Delta D'EFC'$.

3. Create your own shape and translate it on the grid. Write the words and coordinate rule to move your shape.

Use shapes on the grid below to answer the following questions.

1. Describe what is happening to go from PQRS to P'Q'R'S'.

2. Use arrow notation to show how each vertex maps.

3. Reflect PQRS across $y = 1$, draw the new shape, and use arrow notation to show each vertex.