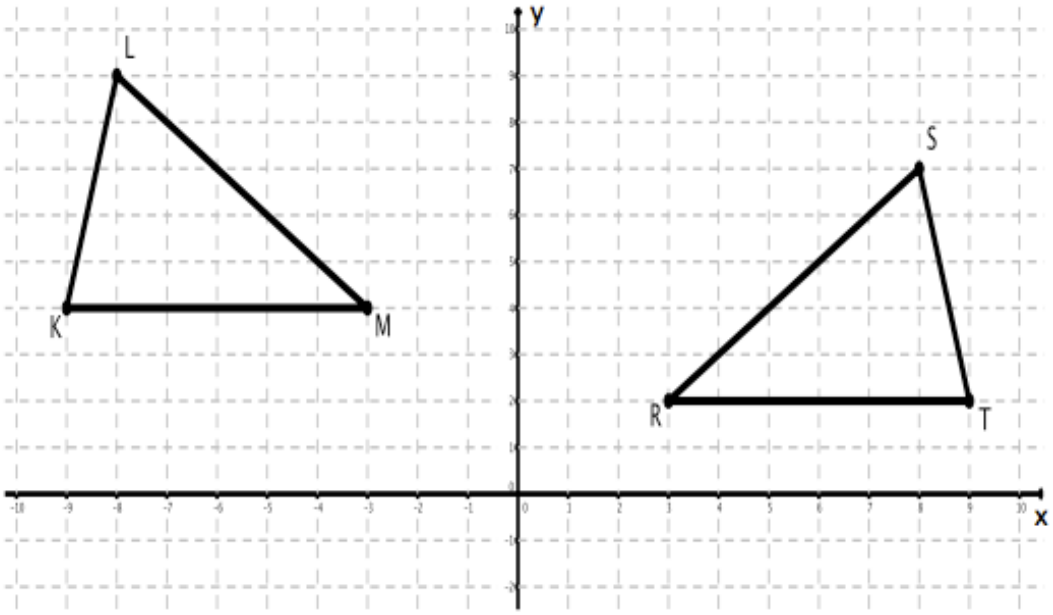
Transformational Geometry Worksheet

Tasks 1a + 1b

Task #1a

Which sequence of transformations carries ΔKLM to ΔTSR?

A) reflection over the x-axis and translation 2 units down
B) reflection over the y-axis and translation 2 units down
C) translation 2 units down and 90° rotation about the origin
D) translation 12 units right and 90° rotation about the origin

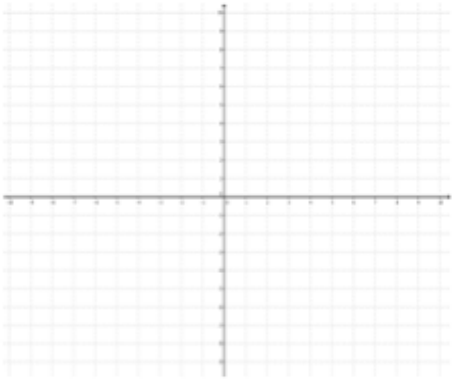


Task #1b

For each of the *incorrect* choices in Task #1a, carry out the transformation and describe how the resulting image is different from ΔTSR.

Task #2

ΔABC is rotated 90° clockwise about the origin to form ΔDEF. ΔDEF is transformed by a dilation centered at the origin, with scale factor 4. The result is ΔQRS. (You may use the space below.)



Part 1: What parts of ΔQRS are congruent to the corresponding parts of ΔABC? Explain your reasoning.

Part 2: What is the relationship between the perimeter of ΔQRS and ΔABC? Explain your reasoning.