

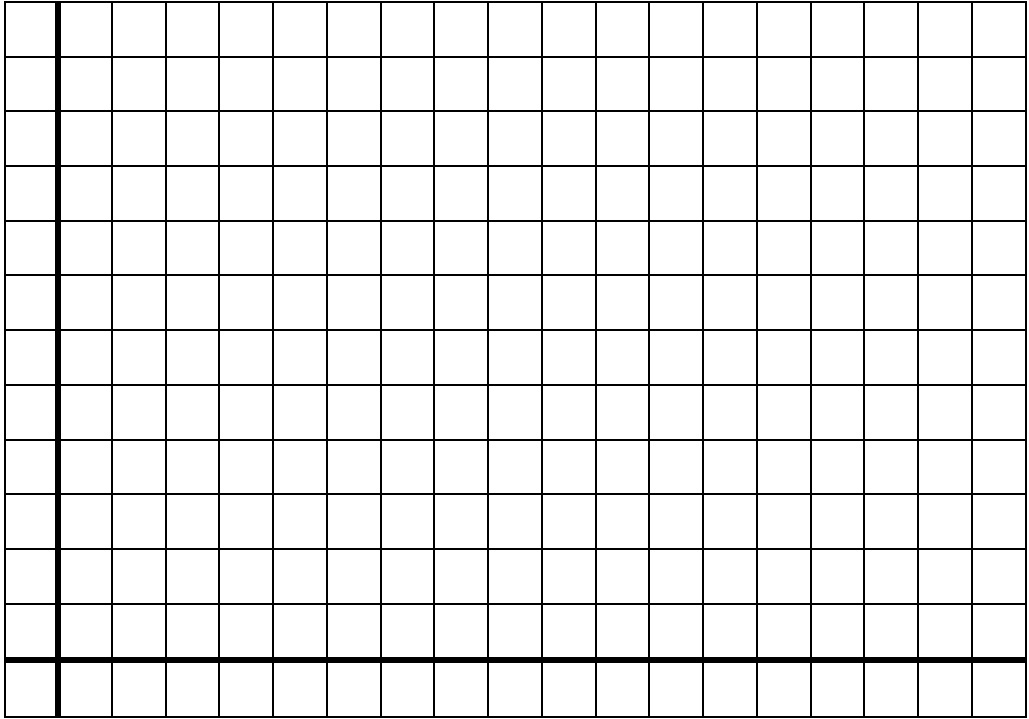
Geometry – Dilations

7b: Homework

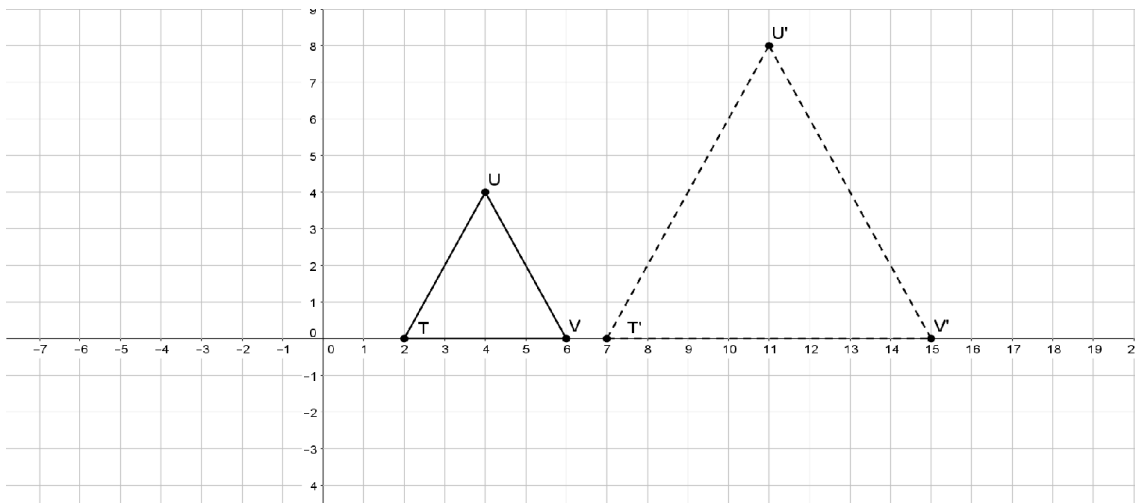
Name _____

Pd _____ Date _____

1. ΔPQR has the following vertices: P (2, 4), Q (10, 3), R (7, 12). Dilate ΔPQR about the origin with a scale factor of $\frac{1}{2}$. Identify the scale of the axes below. Show both triangles in the coordinate plane below. Label each vertex with its name and coordinates.



2. Is $\Delta T'U'V'$ a dilation about the origin of ΔTUV . Explain why or why not.



3. Hexagon $BCKMHP$ has the following vertices:

B (-2, 3), C (2, 3), K (4, 0), M (2, -3), H (-2, -3) P (-4, 0)

Dilate $BCKMHP$ about the origin with a scale factor of 2.5. Identify the scale of the axes below. Show both hexagons in the coordinate plane below. Label each vertex with its name and coordinates.

