

Dilations # 1

Name: _____

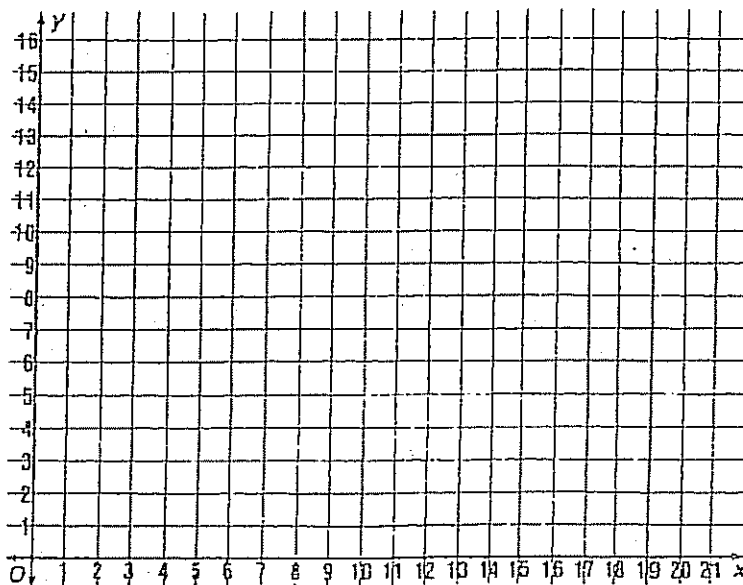
Date: _____

Triangle LMN has vertices L(8,2), M(10, 8), and N(4,6). Find a dilations with each of the given scale factors. Graph the original triangle and each dilation on the grid paper below. Hint: you may find a different color for each triangle helpful in seeing how the triangle changes with each dilation. Show all your math!

1. Scale factor of $\frac{1}{2}$

2. Scale factor of 1.5

3. Scale factor of 2



Triangle PQR has vertices P(-2, 2), Q(3,2) and R(0, 1). Find a dilation with each given scale factor. Graph the original triangle and its dilation on each coordinate plane.

4. Scale factor of 2

5. Scale factor of $\frac{1}{2}$

