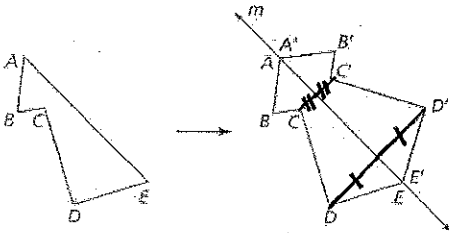


gold

Name: Answers Date: _____ Class: _____

Homework: Investigating Reflections

1. You can make the symmetric figure below by reflecting pentagon $ABCDE$ in line m to form $A'B'C'D'E'$. Together, the pentagons form a symmetric design. What is the relationship between each pair of symmetric points and the line of symmetry?

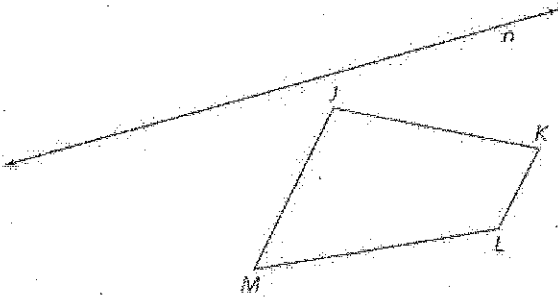


Each corresponding pair is equal in distance to the line of reflection.

2. Based on the information you learned in our investigation, complete the following thought. A reflection over line m matches each point X on a figure to an image point X' so that...

Each is the same distance from the line of reflection.

3. If I reflect the image $JKLM$ over line n , are the properties of the original quadrilateral $JKLM$ preserved in its image $J'K'L'M'$? Explain.



Yes. The corresponding angles & sides would be equal. The reflected image would be the same size & shape.