

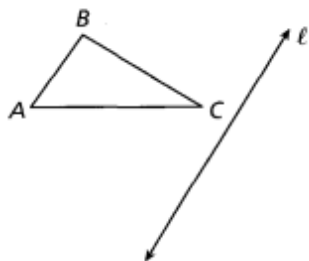
Reflections

G.CO.A.5

Date: _____ Pd: _____

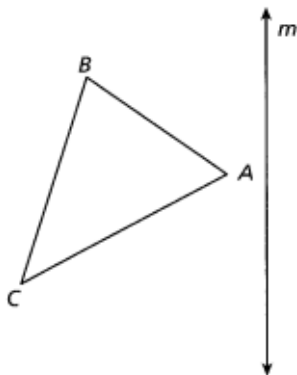
WITH PATTY PAPER:

- Place a sheet of patty paper over the figure. Use a straightedge to help you trace the figure and the line of reflection with its arrowheads.
- Flip the patty paper over and move it so that line l lies on top of itself.
- Trace the image of the figure on the patty paper. Press firmly to make an impression on the paper below.
- Lift the patty paper and draw the image of the figure. Label the vertices.



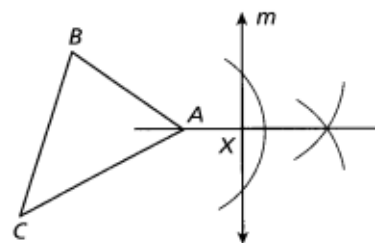
Follow along on the diagram to the left.

WITH TOOLS:

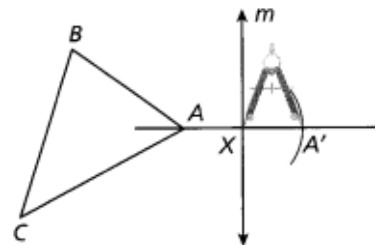


Follow along on the diagram to the left.

- Start with point A . Construct a perpendicular to line m that passes through point A .
- Label the intersection of the perpendicular and line m as point X .



- Place the point of your compass on point X and open your compass to the distance XA . Mark an arc to mark this distance on the perpendicular on the other side of line m .



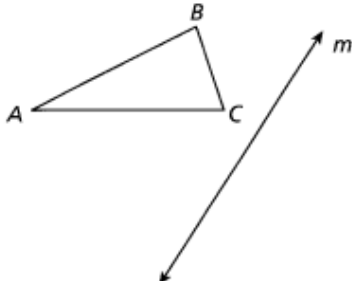
- Label the point where the arc intersects the perpendicular as point A' .
- Repeat the steps for the other vertices of $\triangle ABC$.
(Hint: you may want to extend the line of reflection in order to construct the perpendiculars.)



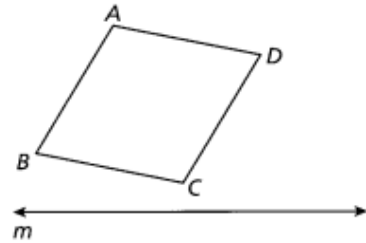


1) Use patty paper to help you draw the reflection image of each figure across line m . Label the vertices of the image using prime notation.

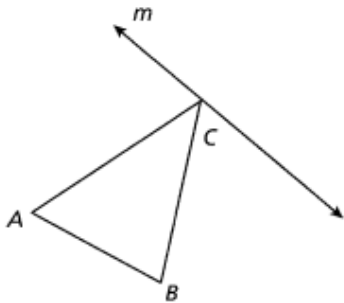
a)



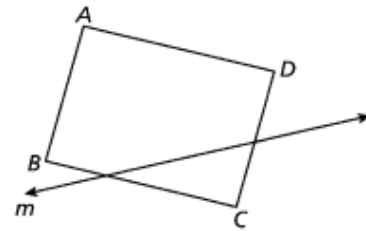
c)



b)

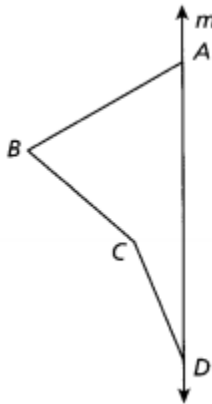


d)

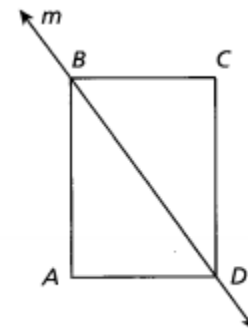


2) Use a compass and straightedge to construct the reflection image of each figure across line m . Label the vertices of the image using prime notation.

a)

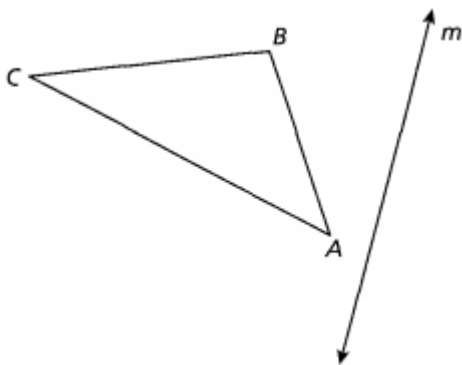


b)



3) Choose a method of reflection and construct the reflection image of each figure across line m .

a)



b)

