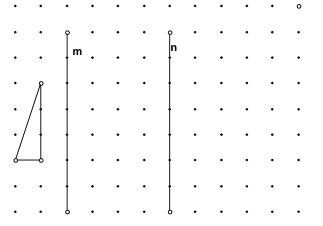
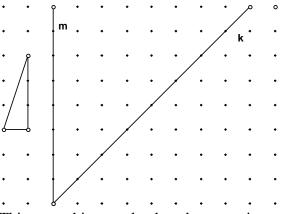
2-step transformations:

1. Show the position of the triangle if you reflect first in m and then in n.



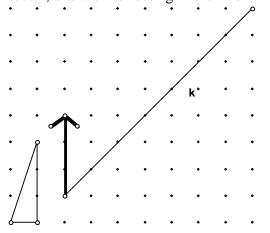
This same thing can be done in one step by a translation. Describe that translation:

2. Show the position of the triangle if you reflect first in m and then in k:

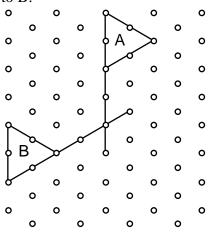


This same thing can be done by a rotation. Estimate the rotation point and angle:

3. Show the result of first translating along the vector, and then reflecting in the line k:



4. Completely describe the rigid motion (reflection, rotation or translation) that moves A to B:



Please note that P' is the image of the point P after the first transformation

5.a. Show the final image of the flag after : first reflecting across the line, and then rotating  $90^{\circ}$  around point P'

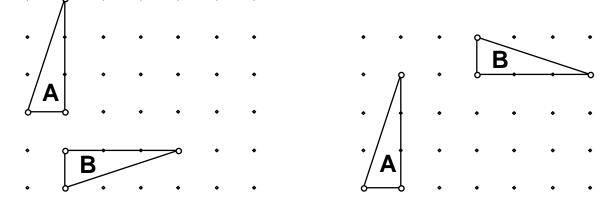
5b. Show the final image of the flag after first rotating  $-90^{\circ}$  about the point P, and then reflecting across the line

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• • • • • •	• • • • • •
• • • • ° <sub>P'</sub> •	
	•••••
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5c. Show the final image of the flag after first reflecting across the line, and then rotating 90° around point P (not P').

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6. Describe with no more than 3 steps how to get from triangle A to triangle B:



7. Describe with no more than 3 steps how to get from shape A to shape B in each problem:

