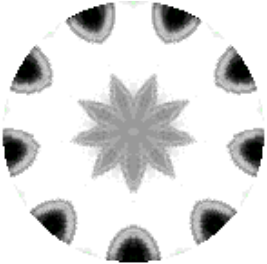
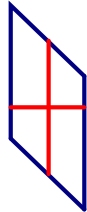

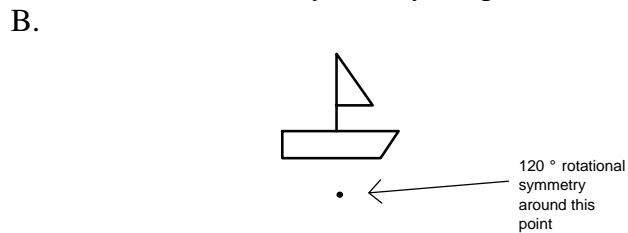
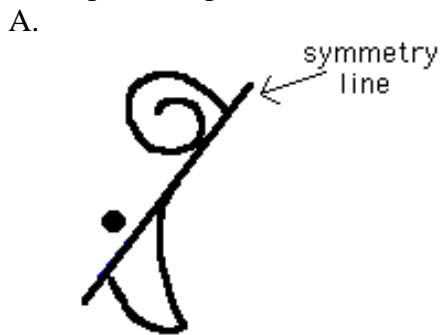


Math 246 Geometry practice problems:

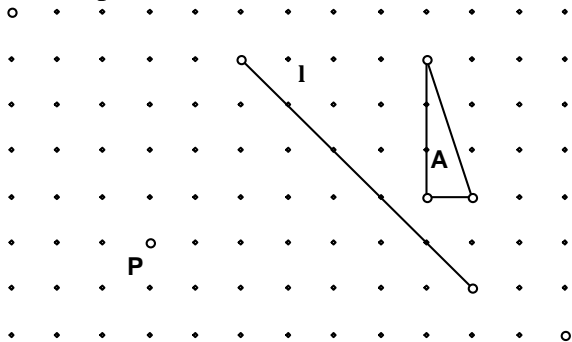
1. Draw in all of the symmetry lines, and find and show the angle of rotation symmetry for each of the following:

<p>A.</p> 	<p>B.</p> 	<p>c.</p> 
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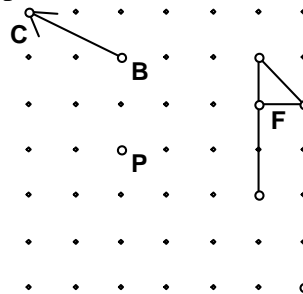
3. Complete the pattern so that it has reflection or rotational symmetry as specified:



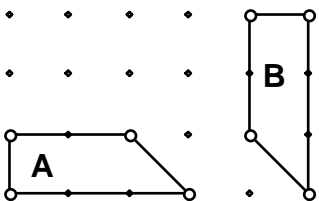
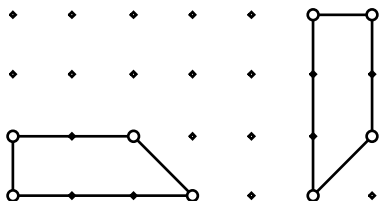
4. Show with a dotted line, the image of triangle A after reflection in line l , and then show with a solid line, where the reflected triangle would be after being rotated by 90° counterclockwise around point P:



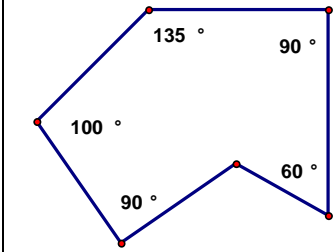
5. Show with a dotted line, the image of flag F after translating along the vector from B to C and then show with a solid line, where the translated flag would be after being rotated by 180° around point P:



5. Tell how to get from trapezoid A to trapezoid B using 3 or fewer transformations:

<p>A.</p> 	<p>B.</p>  <p>(A on the left)</p>
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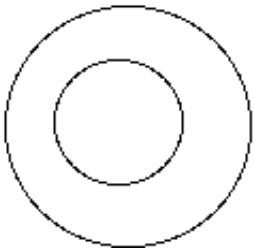
6. Find the missing angle measure in the polygon below:



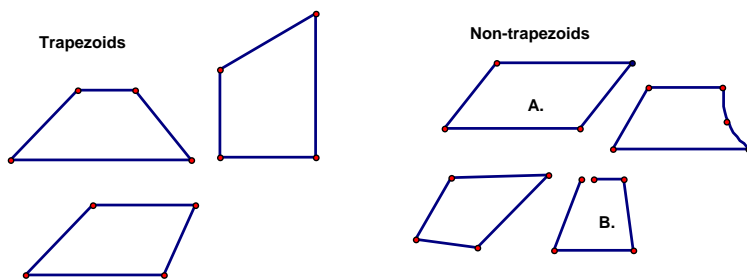
9. Draw a Venn diagram showing the relationship between a rectangles, rhombuses, and squares. Draw a picture of something that belongs in each non-empty region.

10. A. Circle the types of quadrilateral on the list whose diagonals bisect each other: square; rectangle; parallelogram; rhombus; kite; trapezoid

11. Choose two of the types that you have chosen in the list above that have a set-subset relationship, and label them on the Venn Diagram below:



12. Here are some examples of trapezoids and non-trapezoids. For non-examples A and B, tell what concept is being clarified by having them as non-examples.



15. Show how to find the measure of an interior angle of a regular octagon.

Things to study from previous units:

Things to look for from test 1:

- Explaining and solving problems with patterns
- Fixing equations so that they are correctly written

- Scaffolding division, expanded multiplication and showing multiplication on a grid
- Standard algorithms for all 4 operations

Things to look for from test 2:

- Bar diagrams for illustrating word problems (addition, subtraction, multiplication, division)
- Partition vs. Measurement division
- Join vs. PPW addition
- Separate, vs. PPW-PU vs. Compare subtraction
- The commutative and distributive laws and how to explain them