## More geometry problems, sample problems

## Perimeter:

Find the perimeters. Show how you figured out the side lengths in an organized way:



## Symmetry:

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



Rotation angles:



8. Complete the pattern so that it has reflection or rotational symmetry as specified:



## **Transformations:**

9. Show with a dotted line, the image of triangle A after<br/>reflection in line I, and then show with a solid line, where<br/>the reflected triangle would be after being rotated by 90°<br/>counterclockwise around point P:10. Show with a dotted line, the image of flag F after<br/>translating along the vector from B to C and then<br/>show with a solid line, where the translated flag<br/>would be after being rotated by 180° around point P:





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

