## Unit 1 Lesson 3 Cumulative Practice Problems

1. Apply each transformation described to Figure A. If you get stuck, try using tracing paper.
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	1. A translation which takes $P$ to $P^{′}$
	2. A counterclockwise rotation of A, using center $P$, of 60 degrees
	3. A reflection of A across line $ℓ$
1. Here is triangle $ABC$ drawn on a grid.
* 
* On the grid, draw a rotation of triangle $ABC$, a translation of triangle $ABC$, and a reflection of triangle $ABC$. Describe clearly how each was done.
	1. Draw the translated image of $ABCDE$ so that vertex $C$ moves to $C^{′}$. Tracing paper may be useful.
	+ 
	1. Draw the reflected image of Pentagon $ABCDE$ with line of reflection $ℓ$. Tracing paper may be useful.
	+ 
	1. Draw the rotation of Pentagon $ABCDE$ around $C$ clockwise by an angle of 150 degrees. Tracing paper and a protractor may be useful.
	+ 
* (From Unit 1, Lesson 2.)



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