

CO-B7a

Practice Assessment

1. Given  $\triangle ADS \cong \triangle FOL$ .  $\angle A = 70^\circ$ ,  $\angle O = 35^\circ$ . Find the measure of  $\angle L$ .

2. Given  $\triangle ABC \cong \triangle PSL$ ,  $AB=15$ ,  $SL=4x - 4$ ,  $PL = 10$ , and  $BC=2x + 8$ . Find the value of  $x$  and find the perimeter of  $\triangle PSL$ .

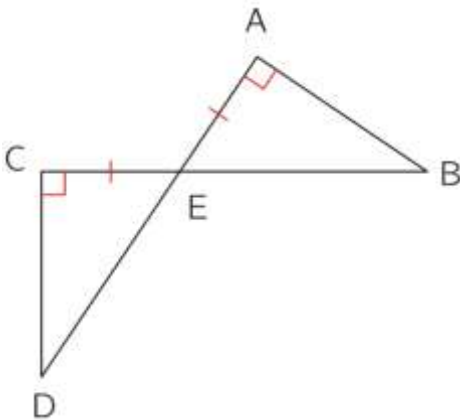
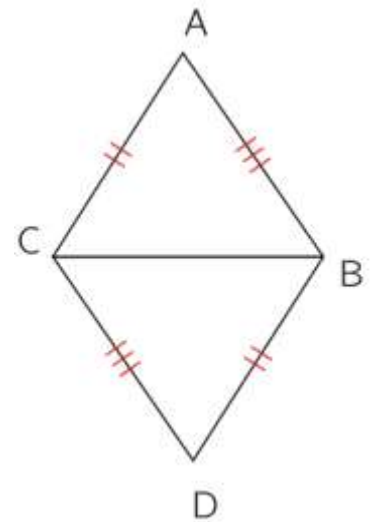
CO-B8a

3. Which criteria can show these two triangles are congruent?

4. Complete the congruence statement:  $\triangle ABC \cong \triangle \_\_\_\_\_\_$

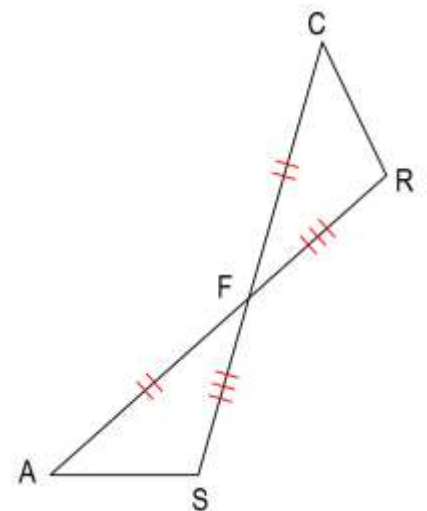
5. Which criteria can show these two triangles are congruent?

6. Complete the congruence statement:  $\triangle ABE \cong \triangle \_\_\_\_\_\_$



7. Which criteria can show these two triangles are congruent?

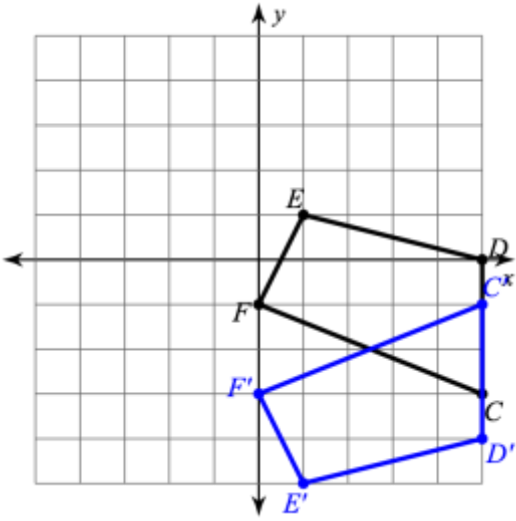
8. Complete the congruence statement:  $\triangle FAS \cong \triangle \_\_\_\_\_\_$



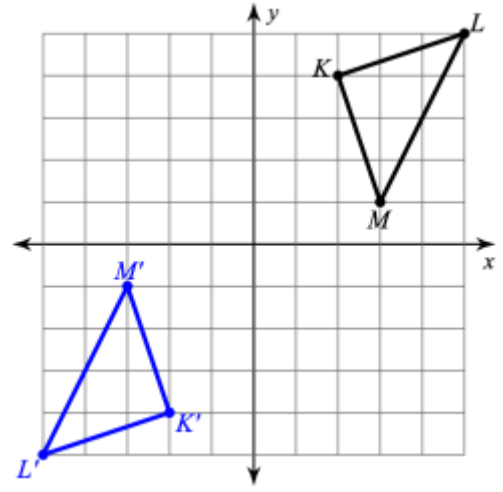
CO-A5a:

In each image below, a single transformation has taken place. First, identify it as a translation, reflection, or rotation. Then, give either the arrow notation rule for translation, the equation/axis of the reflection line, or the degree/direction/center of rotation.

9.

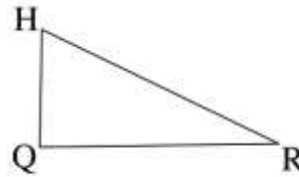


10.



CO-B6a:

11. Describe in detail a sequence of rigid motions that would carry  $\triangle HQR$  onto  $\triangle LWP$ .



Scenario for #12-13:

Suppose  $T_1$  is a transformation with rule  $(x, y) \rightarrow (-y, x)$  and  $T_2$  is a transformation with rule  $(x, y) \rightarrow (-x, y)$ .

12. Determine whether each transformation a translation, reflection, or rotation and describe in detail what each rule does to the figure's location.

13. Suppose a pre-image lying wholly in the fourth quadrant undergoes  $T_1$ , followed by  $T_2$ . In which quadrant is the resulting image?