02-05-Sample Quiz-Congruence Statements

Multiple Choice
*Identify the choice that best completes the statement or answers the question.*

1. The triangles shown are congruent. Which of the below statements is a correct congruence statement?
   
   a. $\triangle EUC \cong \triangle LID$
   b. $\triangle EUC \cong \triangle DLI$
   c. $\triangle EUC \cong \triangle LD\!I$
   d. $\triangle EUC \cong \triangle IDL$
   e. None of these is a correct congruence statement.

2. Consider two congruent triangles such that $\triangle ABC \cong \triangle XYZ$ and the following measures:
   
   $\bullet \ AB = 5$
   $\bullet \ BC = 7$
   $\bullet \ CA = 8$

   What is the length of the segment $\overline{ZY}$?
   
   a. 5
   b. 7
   c. 8
   d. Not enough information was provided.
3. Given the statement, $\triangle PRA \cong \triangle ETC$ and the diagrams shown, determine the measure of $m\angle P$.

a. $m\angle P = 36^\circ$
b. $m\angle P = 46^\circ$
c. $m\angle P = 52^\circ$
d. $m\angle P = 98^\circ$

4. Given the statement, $\triangle FER \cong \triangle MAT$ and the diagrams shown, determine the value of $x$.

a. 4.5  
b. 7  
c. 8  
d. Not enough information was provided.
5. Given the statement \( \triangle ABC \cong \triangle EDC \) and the diagrams shown, determine the length of segment \( FC \).

a. 15  
b. 17  
c. 19  
d. Not enough information was provided.

6. Given \( \triangle JAC \cong \triangle KET \), which series of transformations would most directly map \( \triangle JAC \) onto \( \triangle KET \).

a. Reflection and then Dilation  
b. Rotation and then Translation  
c. Dilation and then Rotation  
d. Reflection and then Translation
7. Each of the following pairs of triangles shown are congruent \((\text{In each diagram } \triangle ABC \cong \triangle DEF)\).

Which is the only pair that requires a \textbf{REFLECTION} at some point to map one triangle onto the other corresponding congruent triangle using transformations?

a. 

b. 

c.