Transform $\triangle A B C$ to show $\triangle A B C \cong \triangle D E F$.

Jaxon's "Reflection \& Rotation" Method


Transform $\triangle A B C$ to show $\triangle A B C \cong \triangle D E F$.


Maxine's "Rotation \& Reflection" Method


$\triangle A B C \cong \triangle D E F$


## Transform $\triangle A B C$ to show $\triangle A B C \cong \triangle D E F$.




## T.5: Verify Congruence

1) What are the similarities and differences between Jaxon and Maxine's methods?

| Similarities | Differences |
| :--- | :--- |
|  |  |
|  |  |

2) Using translations, reflections, and/or rotations, describe the steps that show that $\triangle X Y Z \cong \triangle R S T$.
3) How do you know if two figures are congruent?

4) To show the triangles are congruent, Maxine says you have to start with $\triangle D E F$. Jaxon believes she would be incorrect, and you have to start with $\triangle A B C$. Their friend, Shannon, says they are both right and you can start with either triangle. Explain who you think is correct and why.


