**Objective:**

**Do Now:**

The perimeter of ABC is 30. ABC JKL AB = 6. BC = 13. JK = 15. What is the perimeter of JKL?

1. Draw a diagram to depict the two triangles. Label the vertices and the given side lengths.
2. Find the missing side length CA.
3. What is the scale factor from ABC to JKL?
4. Use the scale factor to find the missing side lengths KL and LJ.
5. What is the perimeter of JKL?
6. How does the perimeter of JKL relate to the perimeter of ABC?

The perimeter of DEF is 45. DEF STU. DE = 30. ST = 20. What is the perimeter of STU?