***Example 1:***

**The perimeter of ABC is 30. ΔABC~Δ 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?

**Practice:**

1. The perimeter of ΔDEF is 25. ΔDEF ~ΔSTU. DE = 10. ST = 12. What is the perimeter of STU?
2. The perimeter of ΔDEF is 36. ΔDEF ~ΔSTU. DE = 20. ST = 8. What is the perimeter of STU?