**5.2 Do Now: Dilating a triangle, calculating lengths**
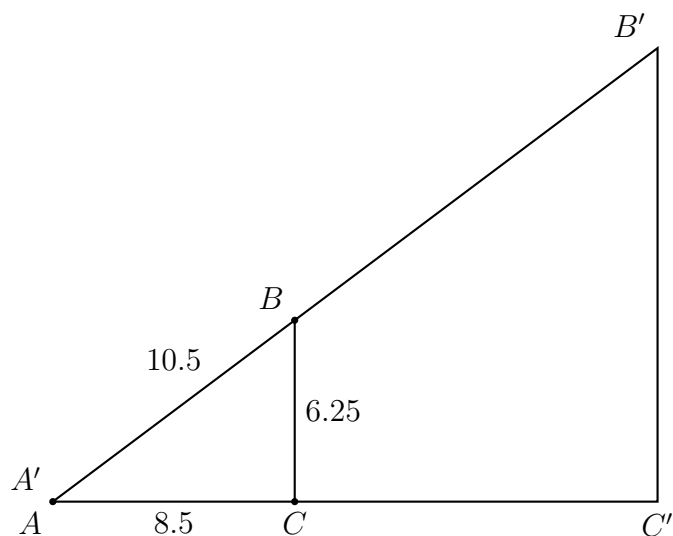
1. A dilation centered at $A$ with $k = 3$ maps $\triangle ABC \to \triangle A'B'C'$. Given the sides of the preimage, $AC = 8.5$, $BC = 6.25$, and $AB = 10.5$, find the corresponding lengths of the image, writing your answer showing the multiplication by the value of $k$ using proper notation.



2. A dilation centered at $A$ maps $\triangle ABC \to \triangle A'B'C'$. Given the sides of the preimage, $AC = 4$, $BC = 3$, $AB = 5$, and of $B'C' = 7.5$ find the scale factor $k$ and the lengths $A'C'$ and $A'B'$.

   Spicy: Find $CC'$.